SHARP

SERVICE MANUAL/SERVICE-ANLEITUNG/MANUEL DE SERVICE

S3834WQT352HK

WQ-T352H(BK)
WQ-T352E(BK)

PHOTO: WQ-T352H(BK)

Note for users in UK
Recording and playback of any material may require consent which SHARP is unable to give. Please refer particularly to the provisions of Copyright Act 1956, the Dramatic and Musical Performers Protection Act 1958, the Performers Protection Acts 1963 and 1972 and to any subsequent statutory enactments and orders.

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.
- Im Interesse der Benutzer-Sicherheit sollte dieses Gerät wieder auf seinen ursprünglichen Zustand eingestellt und nur die vorgeschriebenen Teile verwendet werden.
- Dans l'intérêt de la sécurité de l'utilisateur, l'appareil devra être reconstitué dans sa condition première et seules des pièces identiques à celles spécifiées, doivent être utilisées.

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FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

SPECIFICATIONS

WQ-T352H

General

Power source:	AC 110 - 120/220 - 240 V, 50/60 Hz DC 12 V (UM/SUM-1 or R 20 x 8)
Output power: (DIN 45 324)	(Left + Right + Extra bass) MPO; 20 W (5 W + 5 W + 10 W) (AC operation) RMS; 16 W (4 W + 4 W + 8 W) (DC operation)
Speakers:	8 cm (3-1/8") free-edge super woofer x 1 12 cm (4-3/4") free-edge woofer x 2 Tweeter x 2
Input impedance:	Mixing mic; 600 ohms CD/Line in; 50 k ohms
Loaded impedance:	Headphones; 32 ohms
Dimensions:	Width; 534 mm (21") Height; 190 mm (7-1/2") Depth; 175 mm (6-7/8")
Weight:	5.0 kg (11.0 lbs.) without batteries

Radio

Frequency range:	FM; 87.5-108 MHz LW; 148.5-283.5 kHz MW; 526.5-1,606.5 kHz SW; 5.95-18 MHz

Tape recorder

Tape:	Compact cassette tape
Frequency response:	60 - 12 000 Hz
Signal/noise ratio:	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter:	0.2% (DIN 45 511)

Specifications for this model are subject to change without prior notice.

WQ-T352E

General

Power source:	AC 240 V, 50 Hz DC 12 V (HP-2 or R 20 x 8)
Output power:	(Left + Right + Extra bass) MPO; 27 W (7.5 W + 7.5 W + 12 W) (AC operation) RMS; 16 W (4 W + 4 W + 8 W) (DC operation, 10% distortion)
Speakers:	8 cm (3-1/8") free-edge super woofer x 1 12 cm (4-3/4") free-edge woofer x 2 Tweeter x 2
Input impedance:	Mixing mic; 600 ohms CD/Line in; 50 k ohms
Loaded impedance:	Headphones; 32 ohms
Dimensions:	Width; 534 mm (21") Height; 190 mm (7-1/2") Depth; 175 mm (6-7/8")
Weight:	5.0 kg (11.0 lbs.) without batteries

Radio

Frequency range:	FM; 87.6-108 MHz LW; 150-285 kHz MW; 526.5-1,606.5 kHz SW; 5.95-18 MHz

Tape recorder

Tape:	Compact cassette tape
Frequency response:	60 - 12 000 Hz
Signal/noise ratio:	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter:	0.2% (CCIR)

Specifications for this model are subject to change without prior notice.

VOLTAGE SELECTION

Before operating the unit on mains, check the preset voltage. If the voltage is different from your local voltage, adjust the voltage as follows: Slide the AC power supply socket cover by slightly loosing the screw to the visible indication of the side of your local voltage.

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EINE VOLLSTÄNDIGE BESCHREIBUNG DER BEDIENUNG DIESES GERÄTES IST IN DER BEDIENUNGSANLEITUNG ENTHALTEN.

TECHNISCHE DATEN

General

Power source:	AC 110 - 120/220 - 240 V, 50/60 Hz DC 12 V (UM/SUM-1 or R 20 x 8)
Output power: (DIN 45 324)	(Left + Right + Extra bass) MPO; 20 W (5 W + 5 W + 10 W) (AC operation) RMS; 16 W (4 W + 4 W + 8 W) (DC operation)
Speakers:	8 cm (3-1/8") free-edge super woofer x 1 12 cm (4-3/4") free-edge woofer x 2 Tweeter x 2
Input impedance:	Mixing mic; 600 ohms CD/Line in; 50 k ohms
Loaded impedance:	Headphones; 32 ohms
Dimensions:	Width; 534 mm (21") Height; 190 mm (7-1/2") Depth; 175 mm (6-7/8")
Weight:	5.0 kg (11.0 lbs.) without batteries

Radio

Frequenzbereich:	UKW; 87,5-108 MHz LW; 148,5-283,5 kHz MW; 526,5-1606,5 kHz KW; 5,95-18 MHz

Tonbandrecorder

Band:	Kompaktcassettenband
Frequenzgang:	60 - 12 000 Hz
Rauschabstand:	55 dB (TAPE 1, Wiedergabe) 50 dB (TAPE 2, Aufnahme/Widergabe)
Gleichlaufschwankungen:	0,2% (DIN 45 511)

Die technischen Daten für dieses Modell können ohne vorherige Ankündigung Änderungen unterworfen sein.

SPANNUNGSWAHL

Vor Betrieb dieses Gerätes üder Netzspannung muß die Spannungsvoreinstellung des Spannungswählers überprüft-werden. Sollte die Einstellung des Spannungswählers nichtmit der örtlichen Netspannung übereinstimmen, diesen auf folgende Weise einstellen. Durch Lösen der Schrauben der Netzzuleitungsbuchsenabdeckung wird die Abdeckung auf die Spannungszahl der örtlichen Netzspannung geschoben.

Ⓕ

POUR LA DESCRIPTION COMPLÈTE DU FONCTIONNEMENT DE CET APPAREIL, SE REPORTER AU MODE D'EMPLOI.

CARACTÉRISTIQUES

General

Power source:	AC 110 - 120/220 - 240 V, 50/60 Hz DC 12 V (UM/SUM-1 or R 20 x 8)
Output power: (DIN 45 324)	(Left + Right + Extra bass) MPO; 20 W (5 W + 5 W + 10 W) (AC operation) RMS; 16 W (4 W + 4 W + 8 W) (DC operation)
Speakers:	8 cm (3-1/8") free-edge super woofer x 1 12 cm (4-3/4") free-edge woofer x 2 Tweeter x 2
Input impedance:	Mixing mic; 600 ohms CD/Line in; 50 k ohms
Loaded impedance:	Headphones; 32 ohms
Dimensions:	Width; 534 mm (21") Height; 190 mm (7-1/2") Depth; 175 mm (6-7/8")
Weight:	5.0 kg (11.0 lbs.) without batteries

Radio

Gammes de fréquence:	FM; 87,5-108 MHz GO; 148,5-283,5 kHz PO; 526,5-1606,5 kHz OC; 5,95-18 MHz

Magnétophone

Cassette:	Cassette compacte
Réponse en fréquence:	60 - 12 000 Hz
Rapport signal/bruit:	55 dB (TAPE 1, lecture) 50 dB (TAPE 2, enregistrement/lecture)
Pleurage et scintillement:	0,2% (DIN 45 511)

Les caractéristiques de ce modèle sont sujettes à modification sans préavis.

SÉLECTION DE LA TENSION

Avant de brancher l'appareil sur l'alimentation de secteur, Vérifier la tension préréglée. Si la tension diffère de la tension locale, régler la tension de la facon suivante: faire glisser le couvercle de la douille d'alimentation de secteur, en desserrant un peu la vis, vers l'indication visible du côté de l'alimentation locale.

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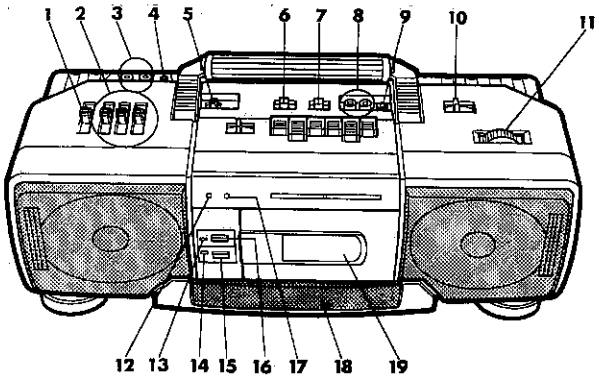
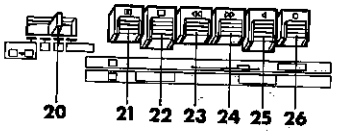
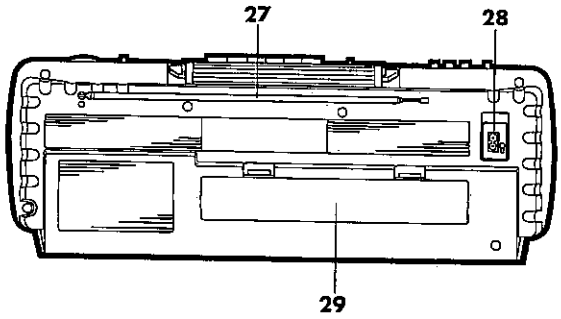
NAMES OF PARTS

1. Volume Control
2. Graphic Equalizer
3. Surround Speaker Sockets
4. Headphones Socket
5. Beat Cancel/FM Mode Switch
6. Dubbing Speed/Tape Selector Switch
7. Function Switch
8. CD/Line Input Sockets
9. Mixing Microphone Socket
10. Radio Band Selector
11. Tuning Control
12. Power Indicator
13. Extra Bass Indicator
14. Surround Indicator
15. Surround Switch
16. Extra Bass Switch
17. FM Stereo Indicator
18. Bass Boost Horn
19. Cassette Compartment
20. Tape Mode Switch
21. Tape 2) Pause Button: II
22. Tape 1, 2) Stop/Eject Button: ■
23. Tape 2) Fast Forward Button: ◀◀
24. Tape 2) Rewind Button: ▶▶
25. Tape 1, 2) Play Button: ◀
26. Tape 2) Record Button: ●
27. FM/SW Telescopic Rod Aerial
28. AC Power Input Socket
29. Battery Compartment







STRINGING OF DIAL CORD

1. Turn the drum fully in the direction Ⓐ shown in Fig. 4-2 and stretch its cord over the parts in the numerical order.
2. Then turn the tuning control shaft fully in the direction Ⓑ shown in Fig. 4-2 and fix its pointer as shown in Fig. 4-1.

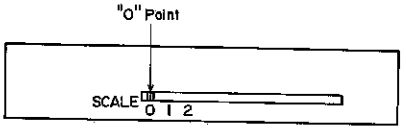


Figure 4−1

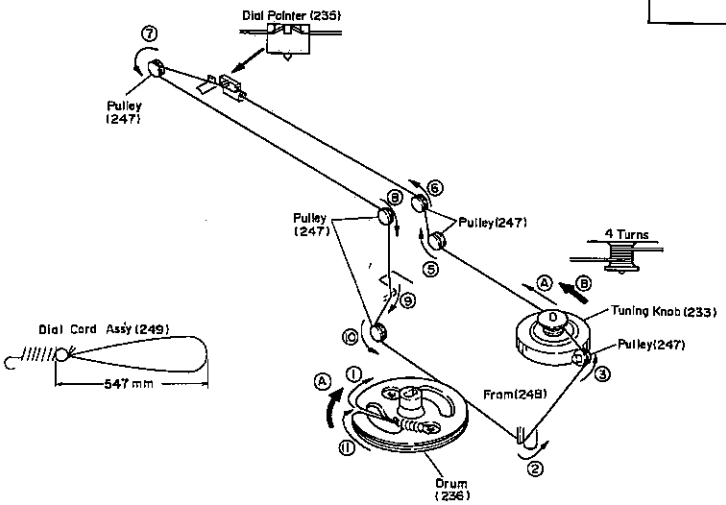


Figure 4−2

Ⓓ BEZEICHNUNG DER TEILE

1. Lautstärkesteller
2. Frequenzgangentzerrer
3. Surround-Lautsprecherbuchsen
4. Kopfhörerbuchse
5. Schwebungsunterdrückungs-/ UKW-Betriebsartenschalter
6. Überspielgeschwindigkeits-/ Bandsortenwahlschalter
7. Funktionsschalter
8. CD/Direkteingangsbuchsen
9. Mikrofonmischbuchse
10. Wellenbandwähler
11. Abstimmsteller
12. Einschaltanzeige
13. Extratieftonanzeige
14. Surround-Anzeige
15. Sorround-Schalter
16. Extratieftonschalter
17. UKW-Stereoanzeige
18. Baßanhebungshorn
19. Cassettenfach
20. Cassettenbetriebsartschalter
21. Deck 2) Pausetaste: ⏸
22. Deck 1, 2) Stop/Auswurf-Taste: ■
23. Deck 2) Schnellvorlauftaste: ◀◀
24. Deck 2) Rückspultaste: ▶▶
25. Deck 1, 2) Wiedergabetaste: ◀
26. Deck 2) Aufnahmetaste: ●
27. UKW/KW-Teleskopantenne
28. Netzeingangsbuchse
29. Batteriefach

Ⓕ NOMENCLATURE

1. Commande de volume
2. Égaliseur graphique
3. Prises d'enceinte surround
4. Prise de casque
5. Commutateur antibattement/ mode FM
6. Sélecteur de vitesse de copie/bande
7. Sélecteur de fonction
8. Prises d'entrée CD/ligne
9. Prise de microphone de mixage
10. Sélecteur de gammes radio
11. Commande d'accord
12. Témoin d'alimentation
13. Voyant extra-graves
14. Voyant surround
15. Commutateur surround
16. Commutateur des extra-graves
17. Voyant de FM stéréo
18. Pavillon d'amplification des graves
19. Compartiment de cassette
20. Commutateur de mode cassette
21. Platine 2) Touche de pause: ⏸
22. Platine 1,2) Touche d'arrêt/éjection: ■
23. Platine 2) Touche d'avance rapide: ◀◀
24. Platine 2) Touche de rebobinage: ▶▶
25. Platine 1,2) Touche de lecture: ◀
26. Platine 2) Touche d'enregistrement: ●
27. Antenne téléscopique FM/OC
28. Prise d'entrée secteur
29. Logement de piles

SPANNEN DER SKALENSCHNUR

1. Die Trommel gemäß Abb. 4-2 bis zum Anschlag in Richtung Ⓐ drehen, dann die Schnur in der numerischen Reihenfolge über die einzelnen Teile spannen.
2. Die Abstimmstellerachse gemäß Abb. 4-2 bis zum Anschlag in Richtung Ⓑ drehen, dann den Zeiger gemäß Abb. 4-1 befestigen.

PASSAGE DU CORDON DU CADRAN

1. Tourner le tambour entièrement dans le sens Ⓐ montré sur la Fig. 4-2 et passer le cordon sur les organes indiqués et dans l'ordre numérique.
2. Tourner l'arbre de commande d'accord entièrement dans le sens Ⓑ montré sur la Fig. 4-2 et fixer son index comme le montre la Fig. 4-1.

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DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep its safety and excellent performance:

1. Take cassette tape out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit and remove the batteries from the unit.
3. Take off nylon bands or wire holders where they need be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take sufficient care on static electricity of integrated circuits and other circuits when servicing.

STEP	REMOVAL	PROCEDURE	FIGURE
1	Front Cabinet	1. Battery lid ····· (A) 2. Screw ····· (B) × 7 3. Open the cassette holder. 4. Tip ····· (C) × 3	6-1 6-2
2	Switch PWB	1. Screw ····· (D) × 3 2. Socket ····· (E) × 1	6-2
3	Mechanism Block	1. Screw ····· (F) × 5 2. Mechanism mode lever ····· (G) 3. Socket ····· (H) × 4	6-3 6-4
4	Frame (With PWB)	1. Screw ····· (I) × 4 2. Socket ····· (J) × 1	6-4

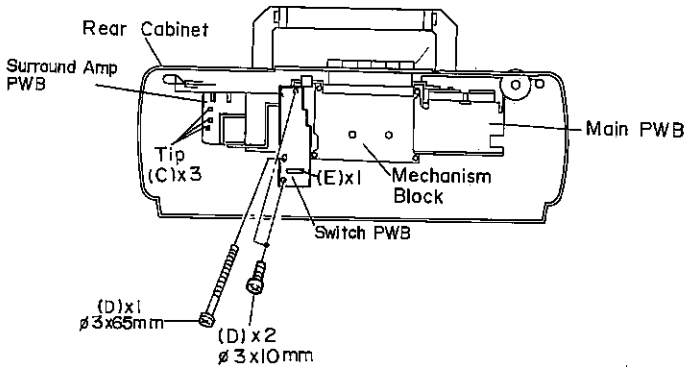


Figure 6−2

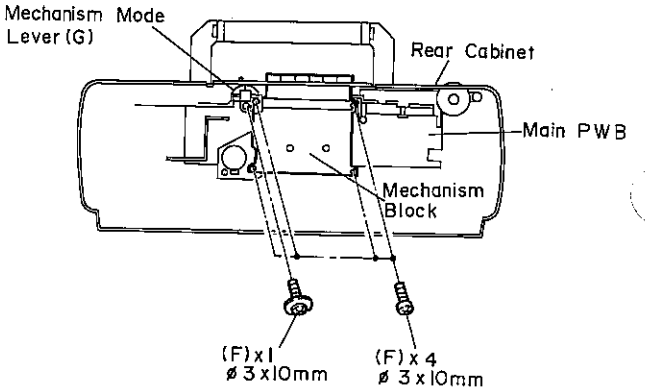


Figure 6−3

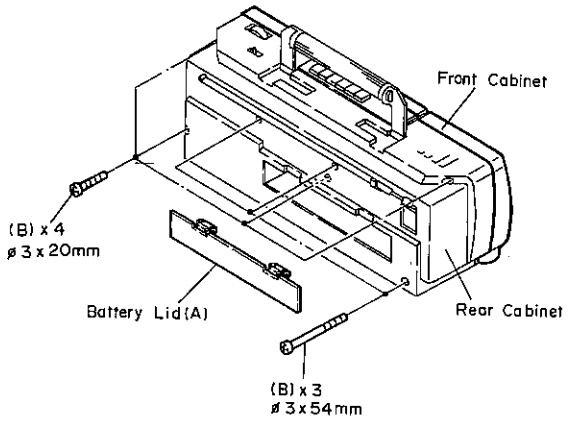


Figure 6−1

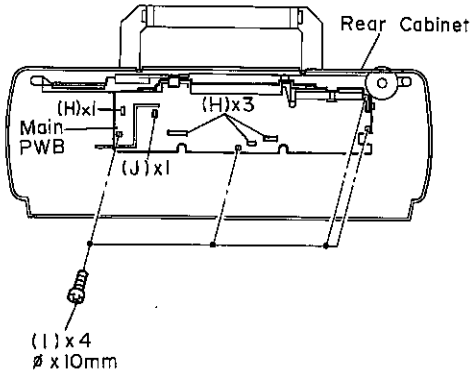


Figure 6−4

Ⓓ ZERLEGEN

Vorsichtsmassregeln Für Das Zerlegen

Beim Zerlegen und Zusammenbauen des Gerätes die folgenden Anweisungen befolgen, um dessen Betriebssicherheit und ausgezeichnete Leistung aufrechtzuerhalten.

1. Die Cassette aus dem Gerät entfernen.
2. Bevor mit dem Zerlegen des Gerätes begonnen wird, unbedingt den Netzkabelstecker aus der Netzsteckdose ziehen und die Batterien aus dem Gerät entfernen.
3. Nylonbänder oder Leitungshalter entfernen, falls dies beim Zerlegen des Gerätes erforderlich ist. Nach Warten des Gerätes darauf achten, die Leitungen wieder so zu verlegen, wie sie vor den Zerlegen angeordnet waren.
4. Beim Ausführen von Wartungsarbeiten auf statische Elektrizität der integrierten Schaltkreise und anderen Schaltungen achten.

SCHRITT	ENTFERNEN	VERFAHREN	ABBILDUNG
1	Vordere Gehäusehälfte	1.Batteriefachdeckel ·····(A) 2.Schraube ·····(B)×7 3.Den Cassettenhalter öffnen. 4.Spitze ·····(C)×3	6-1 6-2
2	Schalter-Leiterplatte	1.Schrabe ·····(D)×3 2.Buchse ·····(E)×1	6-2
3	Laufwerkblock	1.Schraube ·····(F)×5 2.Laufwerkbetriebsartenhebel ··(G) 3.Buchse·····(H)×4	6-3 6-4
4	Rahmen(mit Leiterplatte)	1.Schraube ·····(I)×4 2.Buchse ·····(J)×1	6-4

Ⓕ DÉMONTAGE

Précautions pour le démontage

Lors du démontage de l'appareil et de son remontage, suivre les précautions ci-dessous, pour maintenir la sécurité et d'excellentes performances.

1. Déposer la bande cassette de l'appareil.
2. S'assurer de retirer la fiche d'alimentation secteur de la prise murale avant de démarrer le démontage de l'appareil et déposer les piles de l'appareil.
3. Déposer les bandes de nylon ou les serre-câbles si nécessaire lors du démontage de l'appareil. Après la réparation de l'appareil, s'assurer de redisposer les fils tel qu'ils étaient avant le démontage.
4. Faire attention à l'électricité statique des circuits intégrés et des autres circuits lors de la réparation.

ÉTAPE	DÉPOSE	PROCÉDÉ	FIGURE
1	Coffret avant	1.Couvercle de pile ·····(A) 2.Vis ·····(B)×7 3.Ouvrir le porte-cassette. 4.Bout ·····(C)×3	6-1 6-2
2	PMI de Commutateur	1.Vis ·····(D)×3 2.Douille ·····(E)×1	6-2
3	Bloc du mécanisme	1.Vis ·····(F)×5 2.Levier de mode de mécanisme ·····(G) 3.Douille·····(H)×4	6-3 6-4
4	Châssis (avec P.M.I.)	1.Vis ·····(I)×4 2.Douille ·····(J)×1	6-4

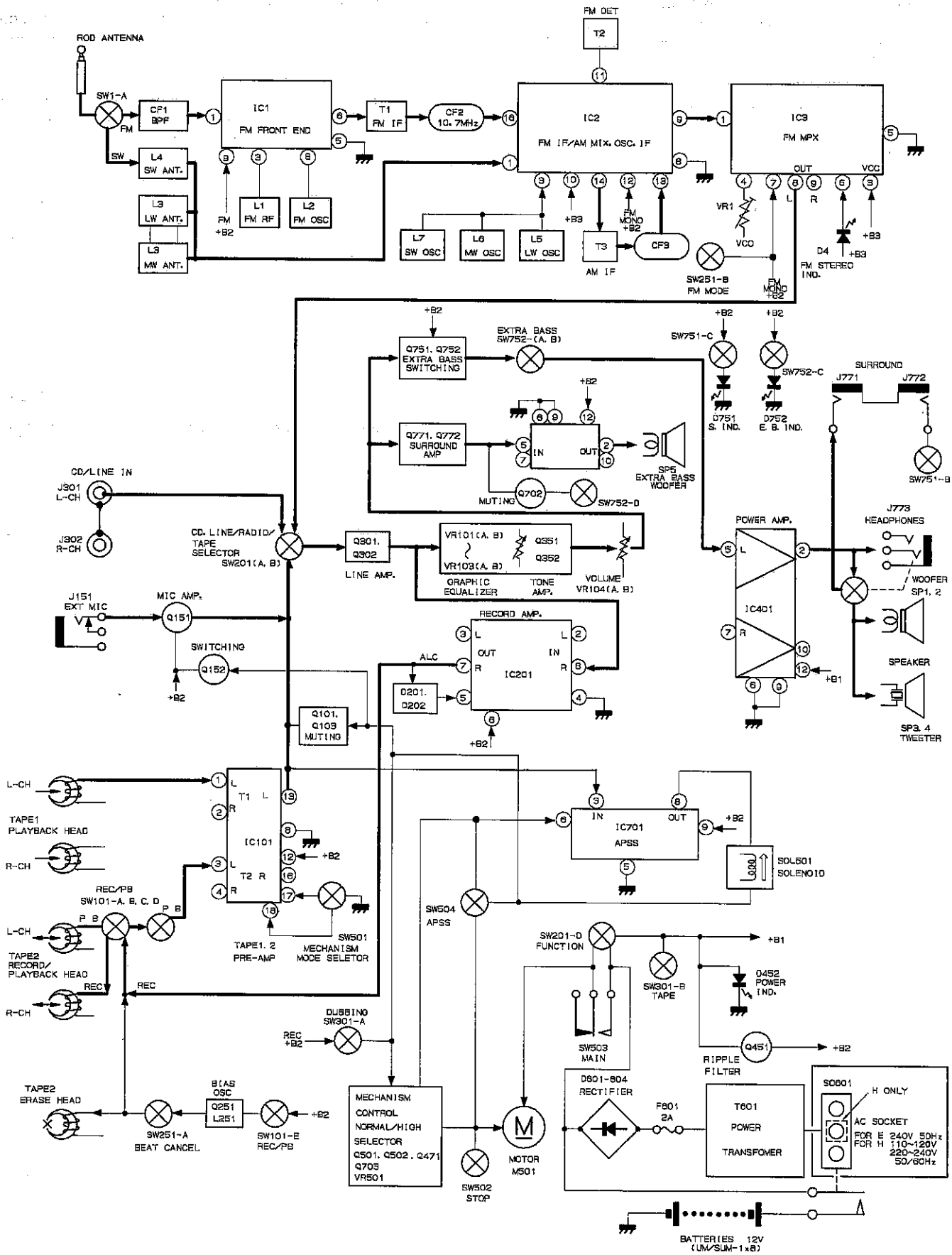


Figure 8 BLOCK DIAGRAM

Ⓔ ADJUSTMENT

As for adjusting method refer to the relevant explanation in Service Manual "ADJUSTMENT PROCEDURES OF AUDIO PRODUCTS".

MECHANISM SECTION

· Driving Force check

Torque Meter	Specified value
Play: TW-2412	Over 140 g

· Torque Check

Torque Meter	Specified value	
	Tape 1	Tape 2
Play: TW-2111	35 to 60 g.cm	30 to 65 g.cm
Fast forward: TW-2231	—	80 to 135 g.cm
Rewind: TW-2231	—	80 to 135 g.cm

· Head Azimuth

Test Tape	Instrument Connection
MTT-114	Speaker terminal (Load resistance: 4 ohms)

· Tape Speed

	Test Tape	Adjusting Point	Specified value	Instrument Connection
Normal speed	MTT-111	Tape 2: VR501	3,000 ± 300 Hz	Speaker terminal (Load resistance: 4 ohms)

TAPE SECTION

Position of each switch or control	
Volume	Max
Beat cancel switch	A/STEREO
Graphic equalizer	Center
Tape speed	Normal
Mechanism mode	1
Function	Tape

· Bias Oscillation Frequency/Bias Current check

	Specified value
Beat cancel	A: 97 ± 5 kHz B: -3 ± 1 kHz for A C: -6 ± 1 kHz for B
Resistor for measurement: 100 ohms	40 ± 4 mV

· Erase Current check

	Specified value
Resistor for measurement: 1 ohm	60 ± 20 mV

· Playback Amplifier Sensitivity check

Test Tape	Specified value	Instrument Connection
MTT-118	1.8 V ± 3 dB	Speaker terminal (Load resistance: 4 ohms)

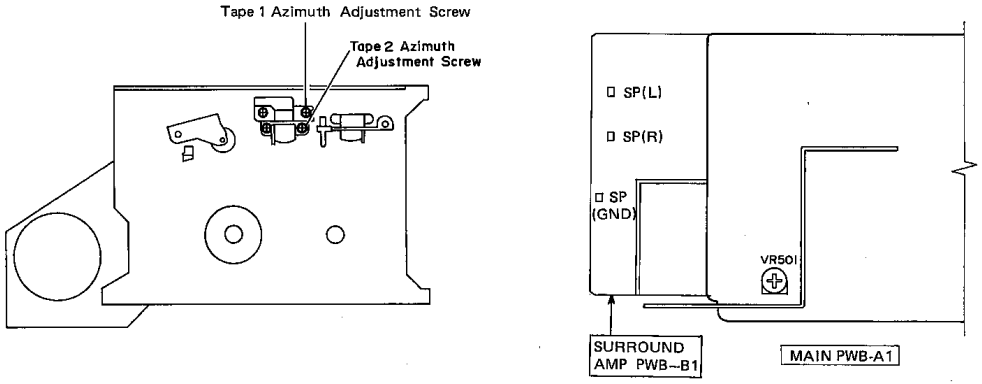


Figure 9 ADJUSTMENT POINTS

Ⓓ EINSTELLUNG

Einzelheiten über das Einstellverfahren sind in den entspre1chenden Erklärungen der Service-Anleitung "EINSTELLVERFAHREN FÜR AUDIOPRODUKTE" angegeben.

BAND-TEIL

· Überprüfung der Antriebskraft

Drehmomentmesser	Vorgeschriebener Wert
Wiedergabe: TW-2412	Über 140 g

· Überprüfung des Drehmoments

Drehmomentmesser	Vorgeschriebener Wert	
	Band 1	Band 2
Wiedergabe: TW-2111	35 - 60 g.cm	30 - 65 g.cm
Schnellvorlauf: TW-2231	—	80 - 135 g.cm
Rückspulung: TW-2231	—	80 - 135 g.cm

· Kopfazimut

Testband	Instrumentenanschluß
MTT-114	Lautsprecherklemme (Belastungswiderstand: 4 Ohm)

· Bandgeschwindigkeit

	Testband	Einstellpunkt	Vorgeschriebener Wert	Instrumentenanschluß
Normale-Geschwindigkeit	MTT-111	Band 2: VR501	3 000 ± 300 Hz	Lautsprecherklemme (Belastungswiderstand: 4 Ohm)

DECK-TEIL

Stellung jedes Schalters oder Stellers	
Lautstärke	Max
Schwebungsunterdrückungsschalter	A/Stereo
Frequenzgangentzerrer	Mitte
Bandgeschwindigkeit	Normal
Laufwerk-Betriebsart	1
Funktion	Band

· Überprüfung der Vormagnetisierungs-Schwingungsfrequenz und des Vormagnetisierungsstroms

	Vorgeschriebener Wert
Unterdrückung von Interferenzpfeifen	A: 97 ± 5 kHz B: -3 ± 1 kHz für A C: -6 ± 1 kHz für B
Widerstand zum Messen: 100 Ohm	40 ± 4 mV

· Überprüfung des Löschstroms

	Vorgeschriebener Wert
Widerstand zum Messen: 1 Ohm	60 ± 20 mV

· Überprüfung der Empfindlichkeit des Wiedergabe-Verstärkers

Testband	Vorgeschriebener Wert	Instrumentenanschluß
MTT-118	1,8 V ± 3 dB	Lautsprecherklemme (Belastungswiderstand: 4 Ohm)

Ⓕ RÉGLAGE

Pour la méthode de réglage, se reporter aux indications concernées dans le Manuel de service "PROCÉDÉS DE RÉGLAGE DES PRODUITS ACOUSTIQUES".

PARTIE MAGNETOPHONE

· Vérification de la force d'entraînement

Torsiomètre	Valeur spécifiée
Lecture: TW-2412	Plus de 140 g

· Vérification du couple

Torsiomètre	Valeur spécifiée	
	Bande 1	Bande 2
Lecture: TW-2111	35 à 60 g.cm	30 à 65 g.cm
Avance rapide: TW-2231	—	80 à 135 g.cm
Rebobinage: TW-2231	—	80 à 135 g.cm

· Azimut de la tête

Bande d'essai	Instrument de connexion
MTT-114	Borne d'enceinte (Résistance de charge: 4 ohms)

· Vitesse de défilement

	Bande d'essai	Point de réglage	Valeur spécifiée	Instrument de connexion
Vitesse normale	MTT-111	Bande 2: VR501	3.000 ± 300 Hz	Borne d'enceinte (Résistance de charge: 4 ohms)

PARTIE PLATINE

Position de chaque commutateur ou chaque commande	
Volume	Max
Commutateur antibattement	A/Stéréo
Egaliseur graphique	Centre
Vitesse de défilement	Normal
Mode de mécanisme	1
Fonction	bande

· Vérification de fréquence d'oscillation de polarisation/courant de polarisation

	Valeur spécifiée
Antibattement	A: 97 ± 5 kHz B: -3 ± 1 kHz pour A C: -6 ± 1 kHz pour B
Résistance pour mesure: 100 ohms	40 ± 4 mV

· Vérification du courant d'effacement

	Valeur spécifiée
Résistance pour mesure: 1 ohm	60 ± 20 mV

· Vérification de la sensibilité de l'amplificateur de lecture

Bande d'essai	Valeur spécifiée	Instrument de connexion
MTT-118	1,8 V ± 3 dB	Borne d'enceinte (Résistance de charge: 4 ohms)

Ⓔ

TUNER SECTION

fL: Low-range frequency
fH: High range frequency

· FM IF/RF

Test Stage	Specified value/ Adjusting Point	Instrument Connection
IF	T1	Input: Antenna Output: Pin 9 of IC2
Detection	T2	
Frequency cover	fL: L2 fH: TC2	
Tracking	88.0 MHz: L1 108.0 MHz: TC1	

· VCO Frequency

Adjusting Point	Specified value	Instrument Connection
VR1	38 kHz ± 100 Hz	Pin 6 of IC3

· AM IF/RF

Test Stage	Specified value/ Adjusting Point	Instrument Connection
IF	T3	Input: Antenna Output: Pin 9 of IC2
LW frequency cover	fL: L5 fH: TC6	Input: Antenna Output: Pin 9 of IC2
LW tracking	170 kHz: L3 270 kHz: TC7	
MW frequency cover	fL: L6 fH: TC4	
MW tracking	600 kHz: L3 1,400 kHz: TC3	
SW frequency cover	fL: L7 fH: TC8	
SW tracking	6.5 MHz: L4 16 MHz: TC5	

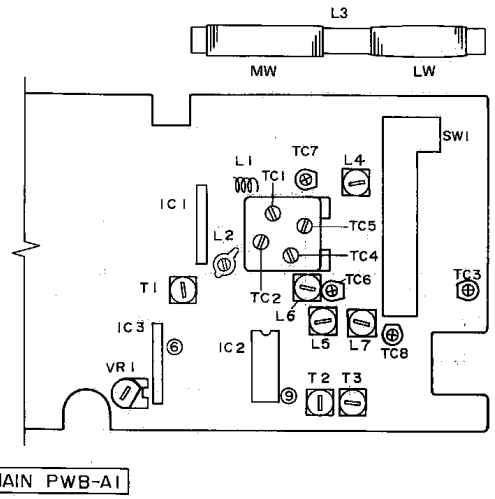


Figure 11 ADJUSTMENT POINTS

Ⓓ

TUNER-TEIL

fL: Niedriger Frequenzbereich
fH: Hoher Frequenzbereich

· UKW-Zwischen-/Hochfrequenz

Prüfstufe	Vorgeschriebener Wert/Einstellpunkt	Instrumentenanschluß
ZF	T1	Eingang: Antenne Ausgang: Stift 9 von IC2
Demodulation	T2	
Frequenz-bereich	fL: L2 fH: TC2	
Abtastung	88,0 MHz: L1 108,0 MHz: TC1	

· Frequenz des spannungsgesteuerten Oszillators

Einstellpunkt	Vorgeschriebener Wert	Instrumentenanschluß
VR1	38 kHz ± 100 Hz	Stift 6 von IC3

· MW-Zwischen-/Hochfrequenz

Prüfstufe	Vorgeschriebener Wert/Einstellpunkt	Instrumentenanschluß
ZF	T3	Eingang: Antenne Ausgang: Stift 9 von IC2
LW-Frequenz-bereich	fL: L5 fH: TC6	Eingang: Antenne Ausgang: Stift 9 von IC2
LW-Abtastung	170 kHz: L3 270 kHz: TC7	
MW-Frequenz-bereich	fL: L6 fH: TC4	
MW-Abtastung	600 kHz: L3 1 400 kHz: TC3	
KW-Frequenz-bereich	fL: L7 fH: TC8	
KW-Abtastung	6,5 MHz: L4 16 MHz: TC5	

DIE ANWEISUNG DER FREQUENZEINSTELLUNG

Um der Postverfügung Nr. 478/1981 zu entsprechen, wird der UKW-Frequenzbereich mit Hilfe der Oszillatorspule (L2-untere Eckfrequenz: 87,5 MHz) und des Oszillatortrimmers (TC2-obere Eckfrequenz: 108,0 MHz) eingestellt.

Ⓕ

PARTIE TUNER

fL: basse fréquence
fH: haute fréquence

· FI/RF FM

Etage d'essai	Valeur spécifiée/ Point de réglage	Instrument de connexion
FI	T1	Entrée: Antenne Sortie: Broche 9 de IC2
Détection	T2	
Couverture de fréquence	fL: L2 fH: TC2	
Alignement	88,0 MHz: L1 108,0 MHz: TC1	

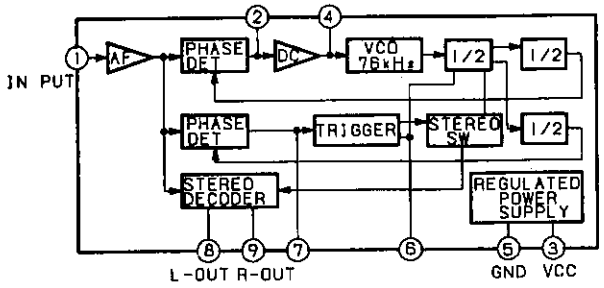
· Fréquence VCO

Point de réglage	Valeur spécifiée	Instrument de connexion
VR1	38 kHz ± 100 Hz	Broche 6 de IC3

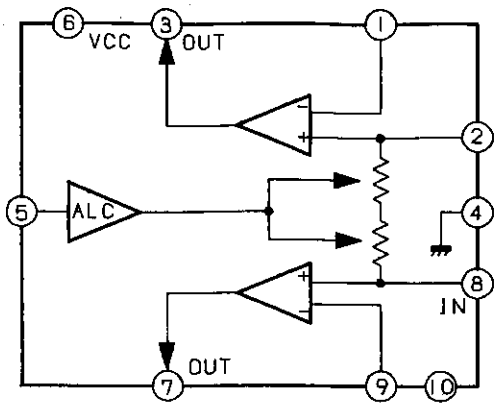
· FI/RF AM (PO)

Etage d'essai	Valeur spécifiée/ Point de réglage	Instrument de connexion
FI	T3	Entrée: Antenne Sortie: Broche 9 de IC2
Couverture de fréquence GO	fL: L5 fH: TC6	Entrée: Antenne Sortie: Broche 9 de IC2
Alignement GO	170 kHz: L3 270 kHz: TC7	
Couverture de fréquence PO	fL: L6 fH: TC4	
Alignement PO	600 kHz: L3 1.400 kHz: TC3	
Couverture de fréquence OC	fL: L7 fH: TC8	
Alignement OC	6,5 MHz: L4 16 MHz: TC5	

TA7343AP



M51544AL



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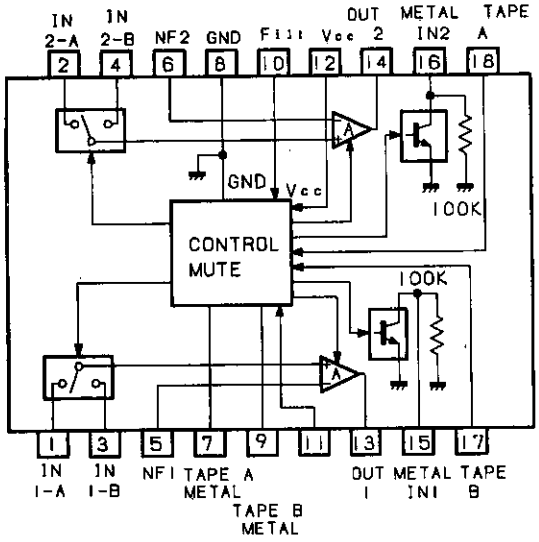
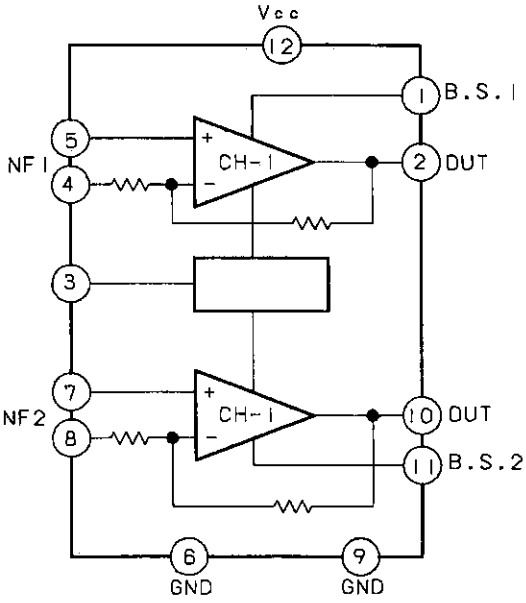


TA7283AP



TA8110AP

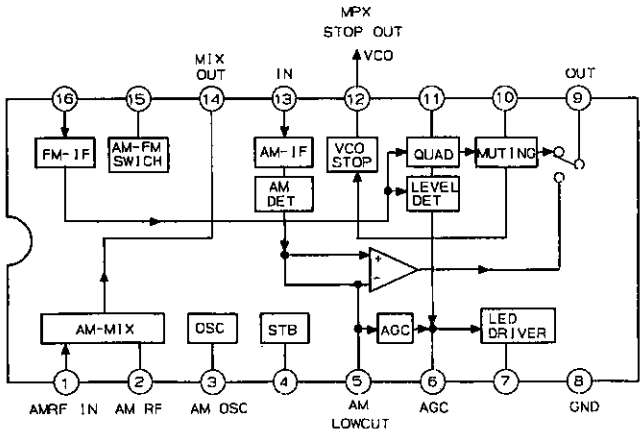


Figure 13 EQUIVALENT CIRCUIT (BLOCK DIAGRAM) OF IC

Ⓔ NOTES ON SCHEMATIC DIAGRAM

- Resistor:
  To differentiate the units of resistors, such symbol as K is used: the symbol K means 1000 ohm and the resistor without any symbol is ohm-type resistor.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression "capacitance/withstand voltage" is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.

1. Tuner
   ( ): AM mode
   Marking except for ( ): FM mode
2. IC101
   ( ): Tape 2 mode
   [ ]: Dubbing mode
   Marking except for ( ) [ ]: Tape 1 mode
3. IC201 and Q251
   Record mode
4. Q152
   ( ): Normal/High Speed Dubbing mode
5. M501 (Motor)
   ( ): High Speed Dubbing mode

- Parts marked with "⚠" (■) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.

Ⓓ ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN

- Widerstände:
  Um die Einheiten der Widerstände unter-scheiden zu können, werden Symbole wie K benutzt. Das Symbol K bedeutet 1000 Ohm Bei Widerständen ohne Symbol handelt es sich um ohmsche Widerstände.
- Kondensatoren:
  Zum Bezeichnen der Kondensatoreinheit wird das Symbol P benutzt; dieses Symbol P bedeutet Nanofard. Die Einheit eines Kondensators ohne Symbol ist Mikrofarad. Für Elektrolytkondensatoren wird die Be-zeichnung "Kapazität/Stehspannung" benutzt.
  (CH), (TH), (RH), (UJ): Temperaturkompensation
  (ML): Mylarkondensator
  (P.P): Polypropylentyp
- Die in den einzelnen Teilen angegebenen Spannungen werden mit einem Digitalvielfachmeßgerät zwischen dem betreffen den Teil und dem Chassis ohne Signalzuleitung gemessen.

1. Tuner
   ( ): AM-Betriebsart
   Kennzeichnung außer ( ): UKW-Betriebsart
2. IC101
   ( ): Band-2-Betriebsart
   [ ]: Überspiel-Betriebsart
   Kennzeichnung außer ( ) [ ]: Band-1-Betriebsart
3. IC201 und Q251
   Aufnahme-Betriebsart
4. Q152
   ( ): Überspiel-Betriebsart mit normaler/hoher Geschwindigkeit
5. M501 (Motor)
   ( ): Überspiel-Betriebsart mit hoher Geschwindigkeit

- Die mit ⚠ (■) bezeichneten Teile sind besonders wichtig für die Aufrechterhaltung der Sicherheit. Beim Wechseln dieser Teile sollten die vorgeschriebenen Teile immer verwendet werden, um sowohl die Sicherheit als auch die Leistung des Gerätes aufrechtzuerhalten.
- Änderungen des schematischen Schaltplans und der Verdrahtungsseite der Leiterplatte für dieses Modell im Sinne von Verbesserungen jederzeit vorbehalten.

Ⓕ REMARQUES CONCERNANT LE DIAGRAMME SCHÉMATIQUE

- Résistance:
  Pour différencier les unités de résistances, on utilise des symbole tels que K: le symbole K signifie 1000 ohms et la résistance donnée sans symbole est une résistance de type ohm.
- Condensateur:
  Pour indiquer l'unité de condensateur, on utilise le symbole P; ce symbole P signifie micro-microfarad, et l'unité de condensateur donnée sans ce symbole est le microfarad. En ce qui concerne le condensateur électrolytique, on utilise l'expression "tension de régime/capacité"
  (CH), (TH), (RH), (UJ): Compensation de température
  (ML): Condensateur Mylar
  (P.P): Type Polypropylène
- La tension indiquée dans chaque section est celle mesurée par un multimètre numérique entre la section en question et le châssis, en l'absence de tout signal.

1. Tuner
   ( ): Mode AM (PO)
   Marque excepté ( ): Mode FM
2. IC101
   ( ): Mode de bande 2
   [ ]: Mode de copie
   Marque excepté ( ): Mode de bande 1
3. IC201 und Q251
   Mode d'enregistrement
4. Q152
   ( ): Mode de copic à vitesse normale/grande vitesse
5. M501 (Moteur)
   ( ): Mode de copic à grande vitesse

- Les pièces portant la marque ⚠ (■) sont particulièrement importantes pour le maintien de la sécurité. S'assurer de les remplacer par des pièces du numéro de pièce spécifié pour maintenir la sécurité et la performance de l'appareil.
- Le diagramme schématque et le côté câblage de la PMI de ce modèle sont sujets à modifications sans préavis pour l'amélioration de ce produit.

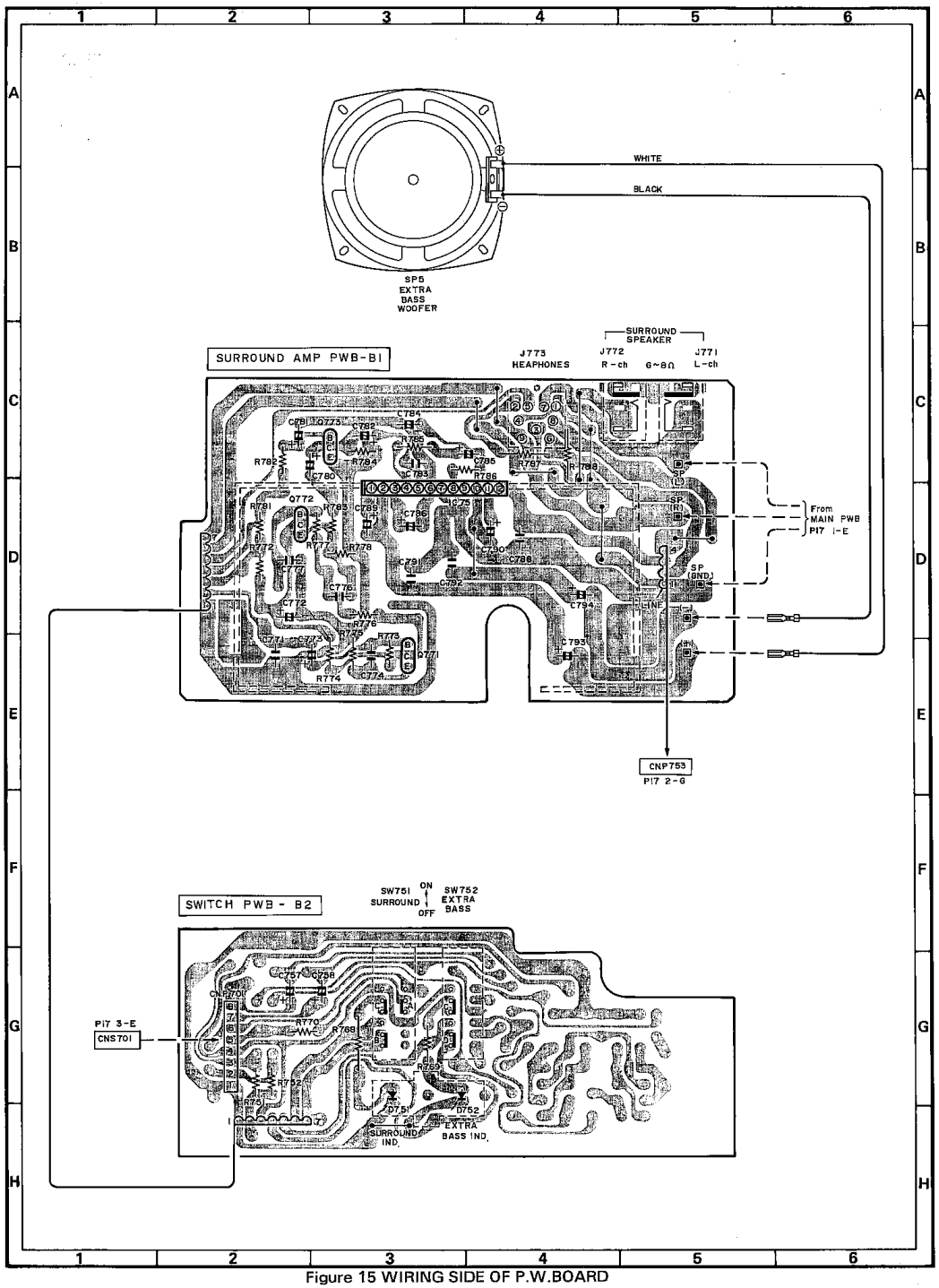


Figure 15 WIRING SIDE OF P.W.BOARD

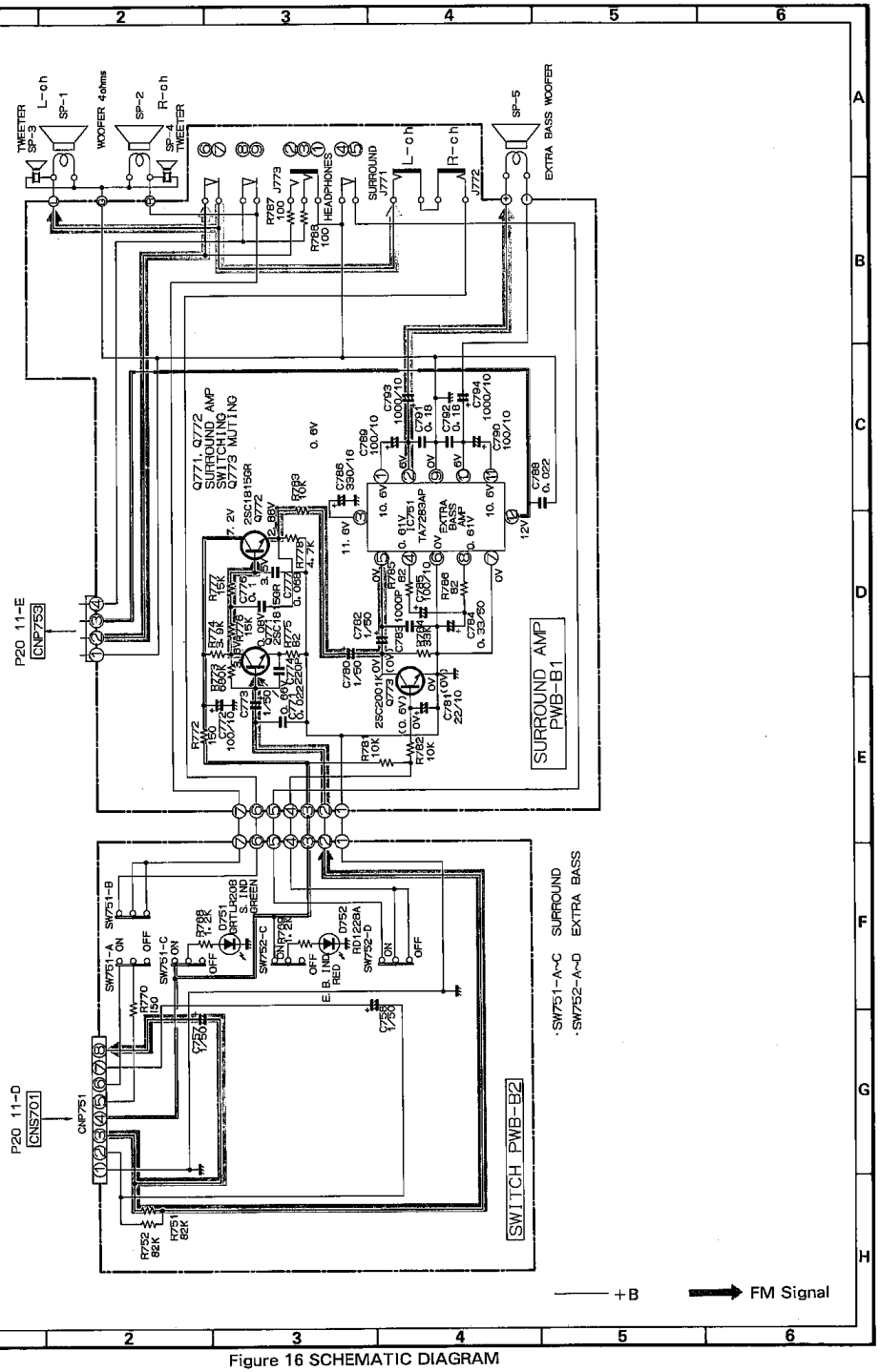


Figure 16 SCHEMATIC DIAGRAM

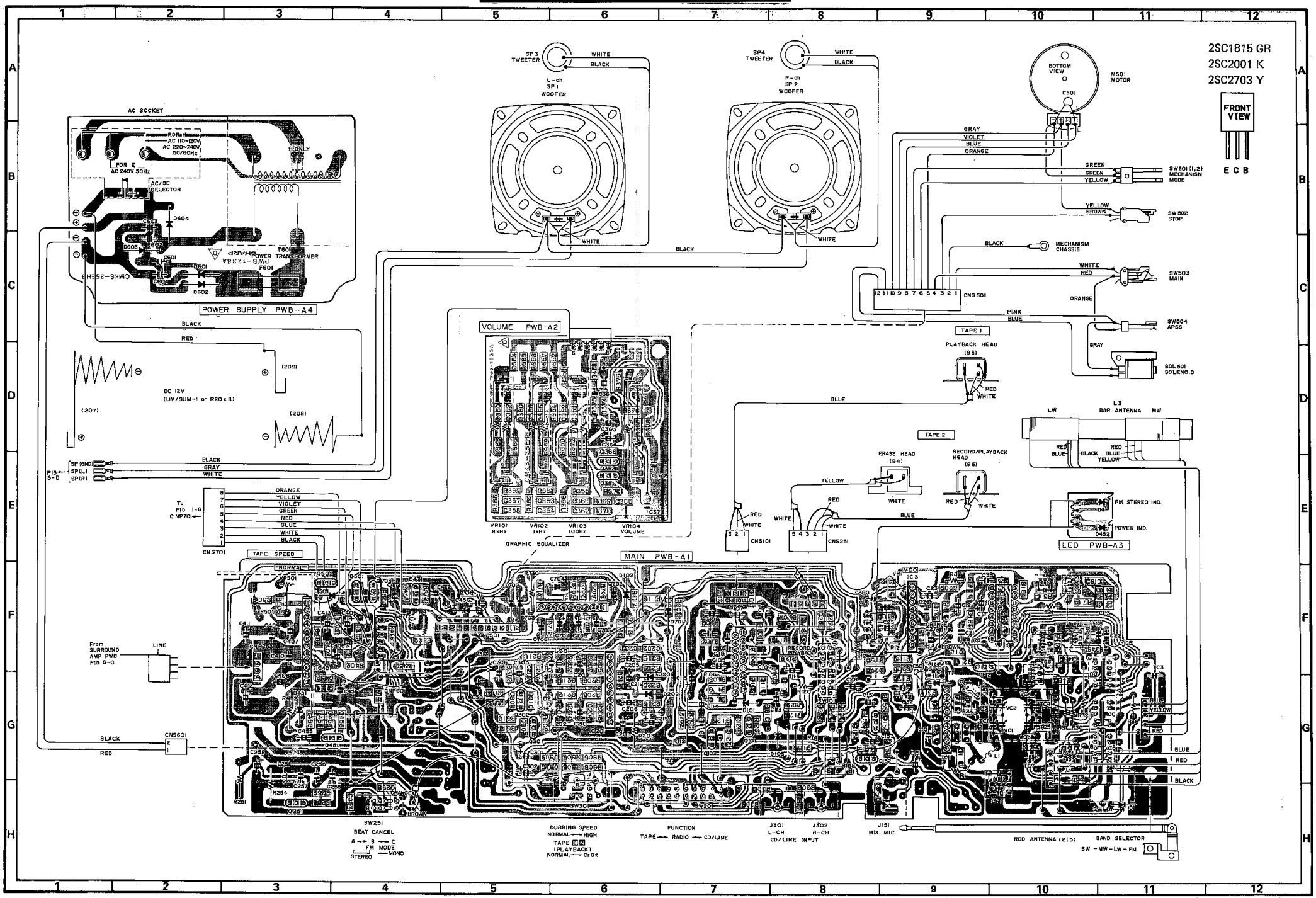
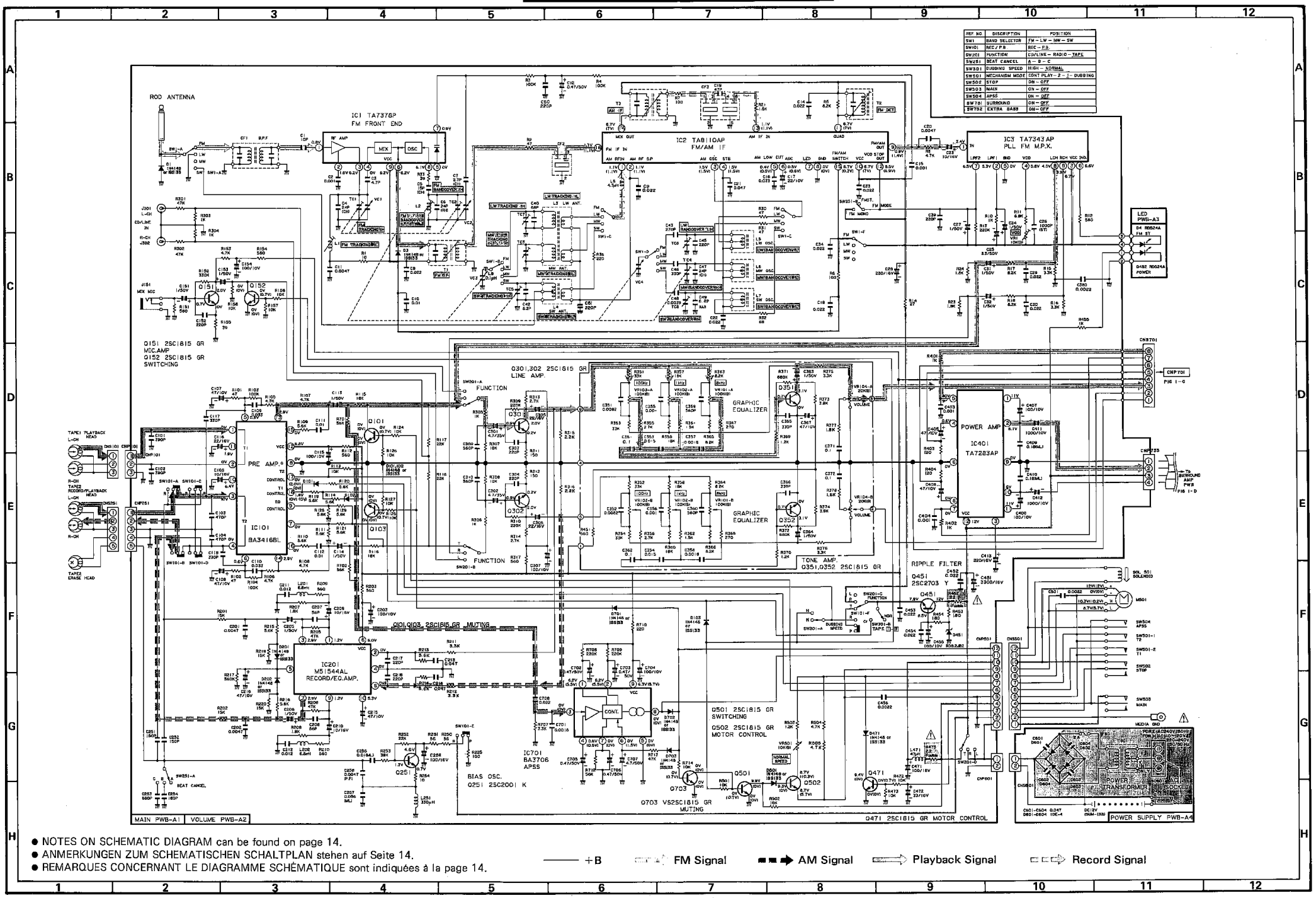


Figure 17 WIRING SIDE OF P.W.BOARD



REF. NO.	DISCRIPTION	POSITION
SW1	BAND SELECTOR	FM – LW – MW – SW
SW101	REC / P.B	REC – P.B.
SW201	FUNCTION	CD/LINE – RADIO – TAPE
SW251	BEAT CANCEL	A – B – C
SW301	DUBBING SPEED	HIGH – NORMAL
SW501	MECHANISM MODE	CONT PLAY – 2 – DUBBING
SW502	STOP	ON – OFF
SW503	MAIN	ON – OFF
SW504	APSS	ON – OFF
SW701	SURROUND	ON – OFF
SW702	EXTRA BASS	ON – OFF

- NOTES ON SCHEMATIC DIAGRAM can be found on page 14.
- ANMERKUNGEN ZUM SCHEMATISCHEN SCHALTPLAN stehen auf Seite 14.
- REMARQUES CONCERNANT LE DIAGRAMME SCHÉMATIQUE sont indiquées à la page 14.

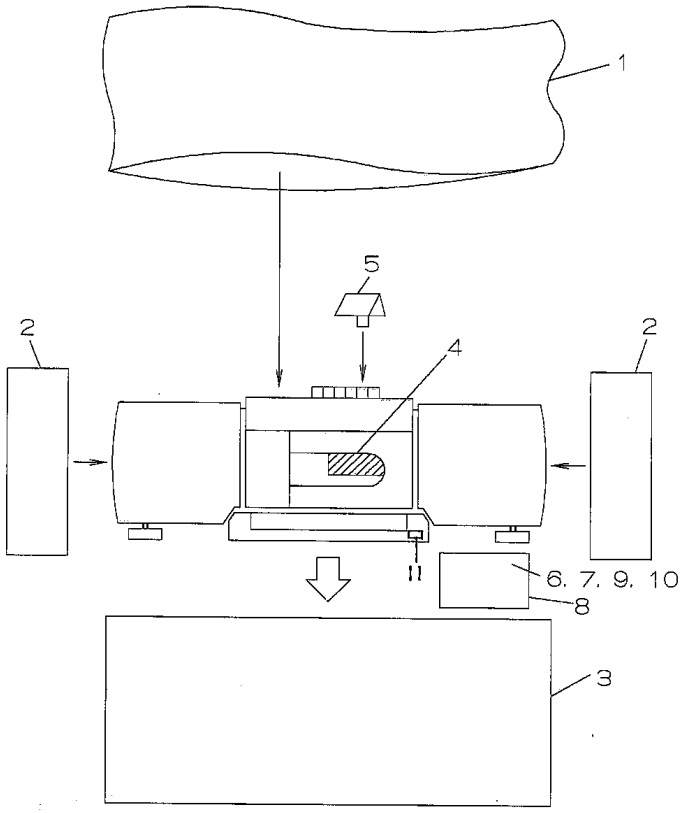
—— +B FM Signal AM Signal Playback Signal Record Signal

Figure 19 SCHEMATIC DIAGRAM

PACKING METHOD (WQ-T352E ONLY)

· SETTING POSITIONS OF SWITCHES AND KNOBS	
Mechanism mode switch	2
Tuning control knob	Get it back half a turn from high extreme position.
Volume control	0
Graphic equalizer control	0 (Center)
Dubbing speed/Tape selector switch	Normal
Function selector switch	TAPE
Mechanism buttons	STOP
Band selector switch	MW
Beat cancel/FM mode switch	A/Stereo

1.	Polyethylene Bag, Unit	92LBAG1228A
2.	Packing Add.	92LP-AD1228A
3.	Packing Case	92LP-CASE1240A
4.	Feature Label	92LLABL1240A
5.	Protection Sheet, Cassette	92LSHEET1228A
6.	Operation Manual	92LiNST1240A
7.	Warranty Card	92LG-CARD029C
8.	Polyethylene Bag, Accessories	92LBAG002B
9.	Caution label, AC Power Supply Cord	92LCAUT003A
10.	AC Power Supply Cord	92LCoRD003B
11.	Label, "MADE IN MALAYSIA"	92LLABL1204C



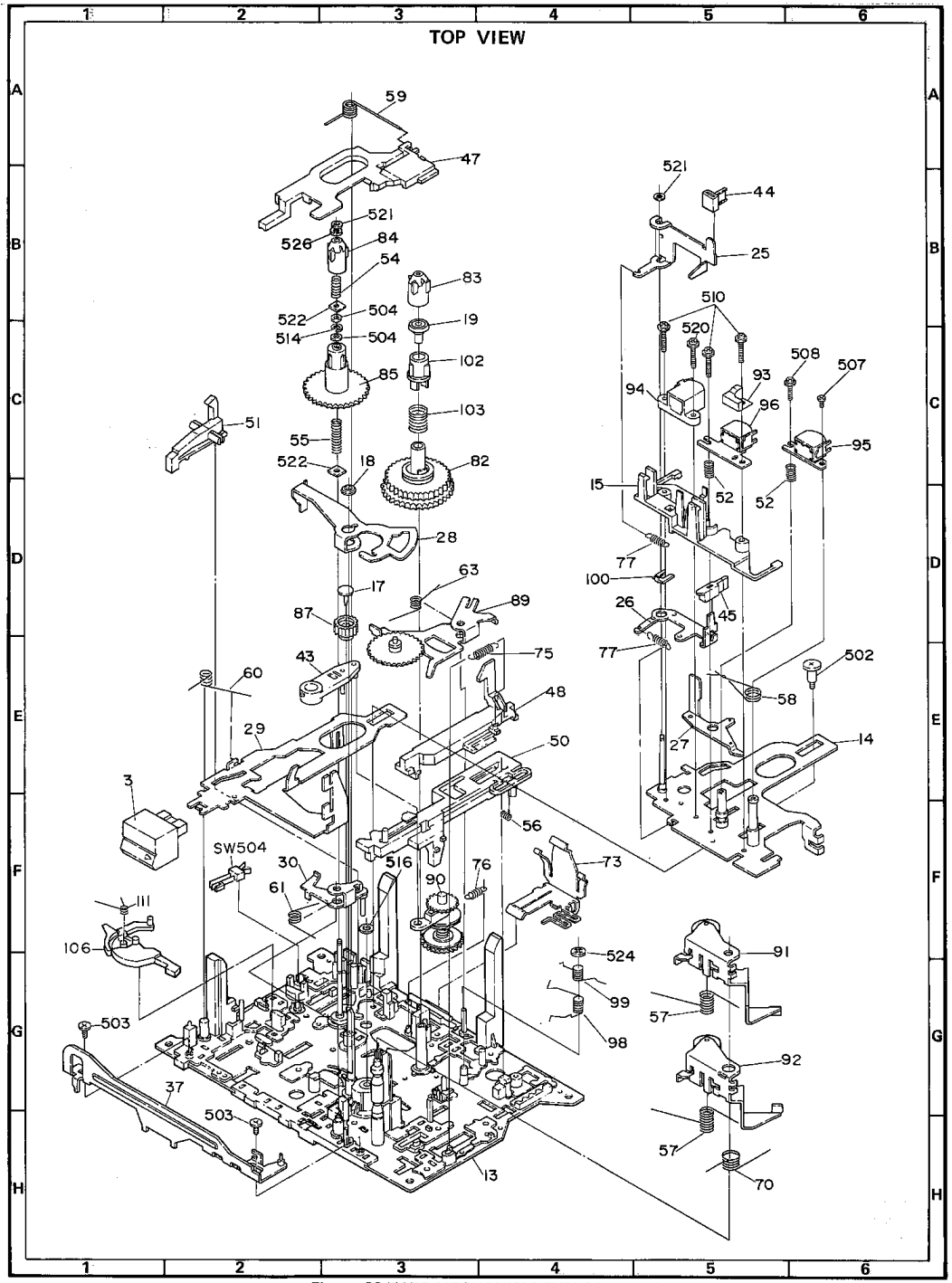


Figure 22 TAPE MECHANISM EXPLODED VIEW

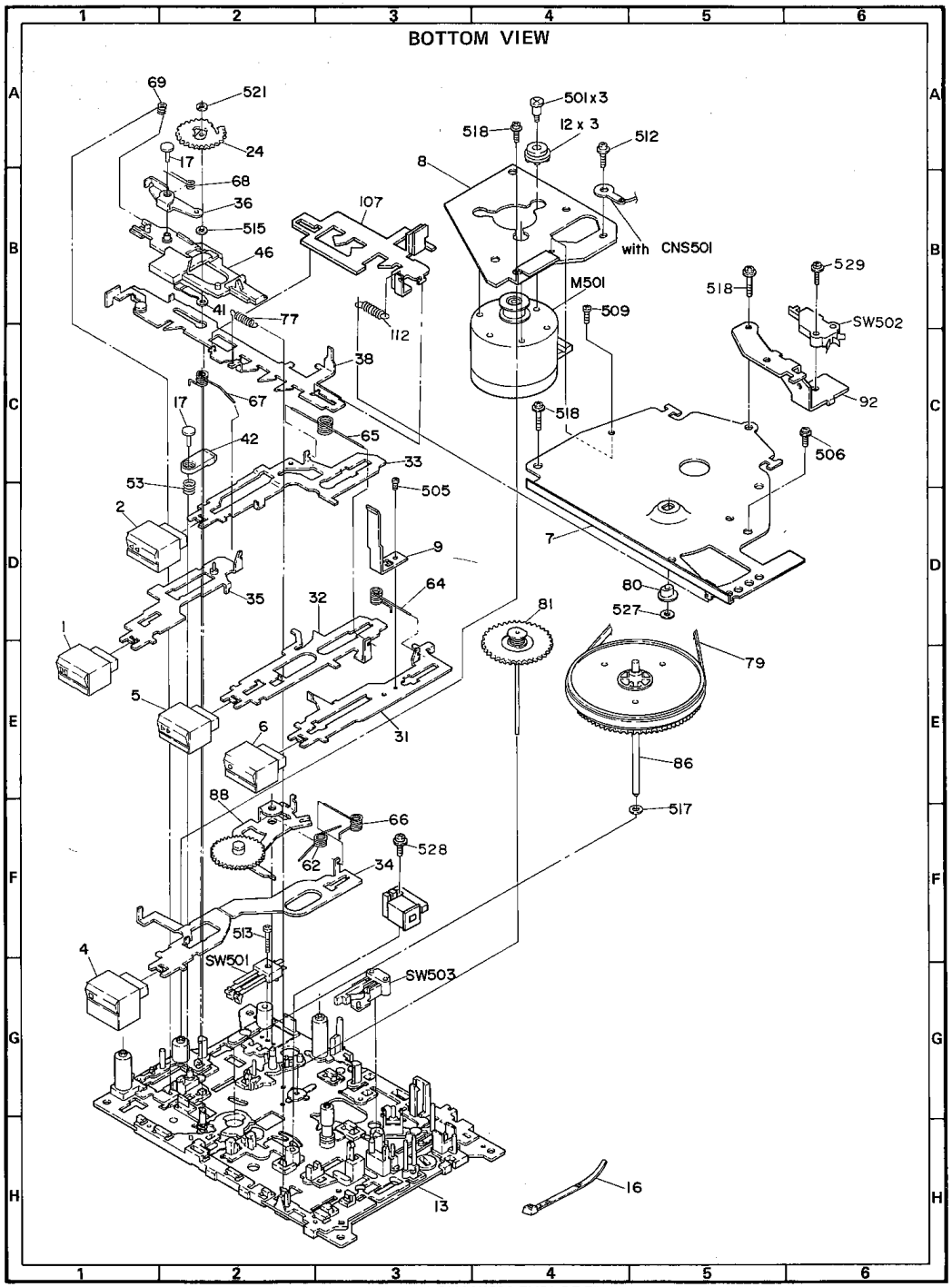


Figure 23 TAPE MECHANISM EXPLODED VIEW

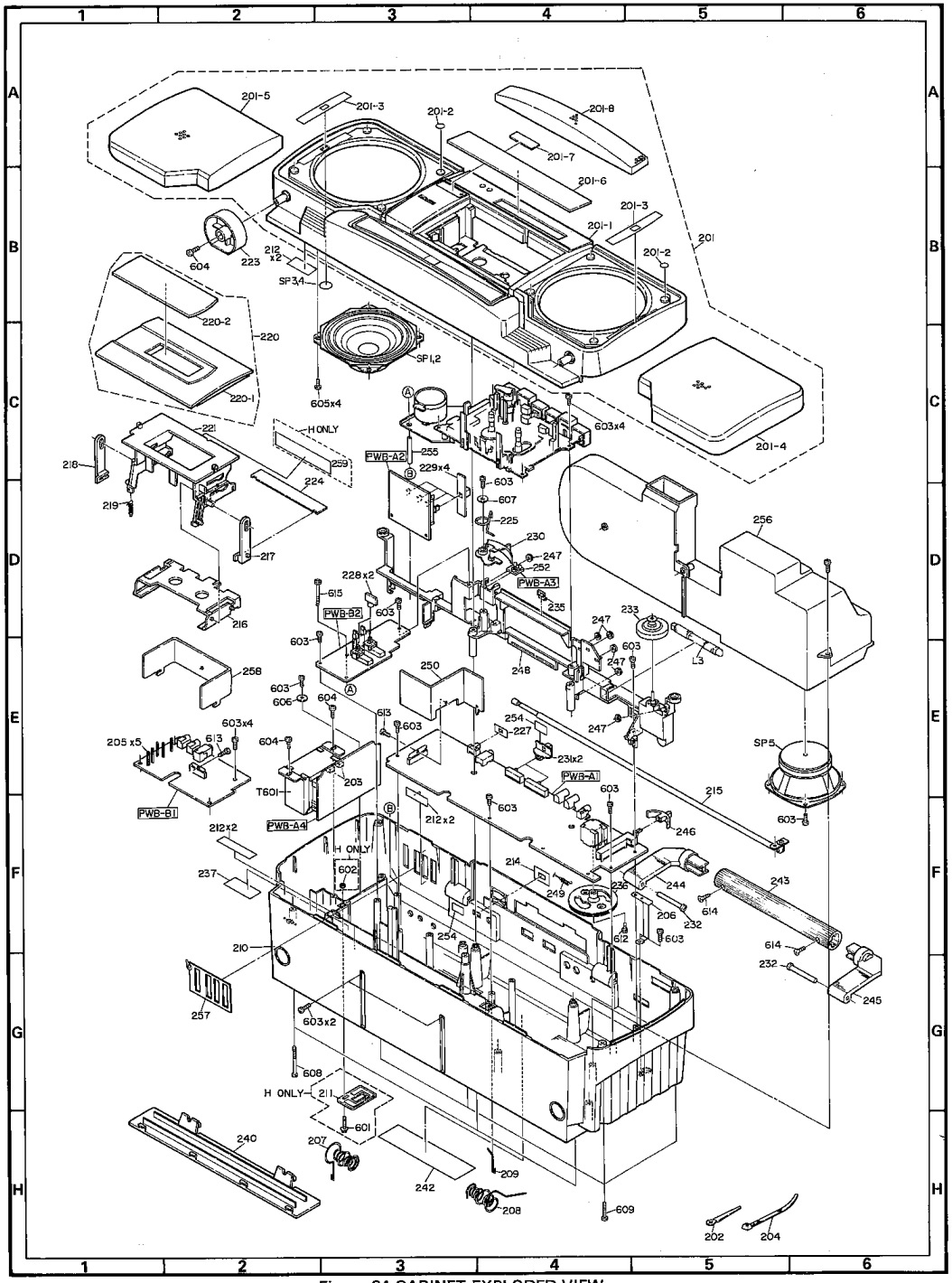


Figure 24 CABINET EXPLODED VIEW

(E) REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

(D) ERSATZTEILLISTE

"BESTELLEN VON ERSATZTEILEN"

Um Ihren Auftrag schnell und richtig ausführen zu können, bitten wir um die folgenden Angaben.

1. MODELLNUMMER
2. REF. NR.
3. TEIL NR.
4. BESCHREIBUNG

ANMERKUNGEN:
Die mit "⚠" bezeichneten Teile sind besonders wichtig für die Aufrechterhaltung der Sicherheit. Beim Wechseln dieser Teile sollten die vorgeschriebenen Teile immer verwendet werden, um sowohl die Sicherheit als auch die Leistung des Gerätes aufrechtzuerhalten.

(F) LISTE DES PIÈCES DE RECHANGE

"COMMENT COMMANDER DES PIÈCES DE RECHANGE"

Pour voir votre commande exécutée de manière rapide et correcte, veuillez fournir les renseignements suivants.

1. NUMÉRO DU MODÈLE
2. N° DE RÉFÉRENCE
3. N° DE LA PIÈCE
4. DESCRIPTION

NOTE:
Les pièces portant la marque "⚠" sont particulièrement importantes pour le maintien de la sécurité. S'assurer de les remplacer par des pièces du numéro de pièce spécifié pour maintenir la sécurité et la performance de l'appareil.

REF.NO.	PART NO.	DESCRIPTION	CODE
INTEGRATED CIRCUITS			
IC1	VHiTA7378P/-1	FM Front End,TA7378P	A G
IC2	VHiTA8110AP-1	FM/AM IF,TA8110AP	A M
IC3	VHiTA7343P/-1	PLL FM MPX,TA7343AP	A G
IC101	VHiBA3416BL-1	Pre Amp.,BA3416B	A G
IC201	VHiM51544AL-1	Rec. Amp.,M51544AL	A G
IC401	VHiTA7283AP-1	Power Amp.,TA7283AP	A K
IC701	VHiBA3706//-1	APSS,BA3706	A L
IC751	VHiTA7283AP-1	Extra Bass Amp.,TA7283AP	A K
TRANSISTORS			
Q101	VS2SC1815GR-1	Silicon,NPN,2SC1815 GR	A B
Q103	VS2SC1815GR-1	Silicon,NPN,2SC1815 GR	A B
Q151,152	VS2SC1815GR-1	Silicon,NPN,2SC1815 GR	A B
Q251	VS2SC2001-K-1	Silicon,NPN,2SC2001 K	A D
Q301,302	VS2SC1815GR-1	Silicon,NPN,2SC1815 GR	A B
Q351,352	VS2SC1815GR-1	Silicon,NPN,2SC1815 GR	A B
Q451	VS2SC2703-Y-1	Silicon,NPN,2SC2703 Y	A D
Q471	VS2SC1815GR-1	Silicon,NPN,2SC1815 GR	A B
Q501,502	VS2SC1815GR-1	Silicon,NPN,2SC1815 GR	A B
Q703	VS2SC1815GR-1	Silicon,NPN,2SC1815 GR	A B
Q771,772	VS2SC1815GR-1	Silicon,NPN,2SC1815 GR	A B
Q773	VS2SC2001-K-1	Silicon,NPN,2SC2001 K	A D
DIODES			
D1	VHD1SS133//-1	Silicon,1SS133 or VHD1N4148//-1	A A
D3	VHD1SS133//-1	Silicon,1SS133 or VHD1N4148//-1	A A
D4	RH-PX1101AFZZ	LED,Red,RD524A	A C
D101~103	VHD1SS133//-1	Silicon,1SS133 or VHD1N4148//-1	A A
D201,202	VHD1SS133//-1	Silicon,1SS133 or VHD1N4148//-1	A A
D451	VHERD8R2JB2-1	Zener,8.2V,RD8.2JB2	A B
D452	RH-PX1101AFZZ	LED,Red,RD524A	A C
D471	VHD1SS133//-1	Silicon,1SS133 or VHD1N4148//-1	A A
D501	VHD1SS133//-1	Silicon,1SS133 or VHD1N4148//-1	A A
⚠D601~604	VHD10E-4///-1	Silicon,10E4	A B
D701~703	VHD1SS133//-1	Silicon,1SS133 or VHD1N4148//-1	A A
D751	92LLEDGRTLG208	LED,Green,GRTLR208	A C
D752	92LLEDRD1228A	LED,Red,RD1228A	A B
FILTERS			
CF1	RCiLA0620AFZZ	Band Pass Filter	A C
CF2	RCiLF0080AFZZ	FM IF,10.7 MHz	A D
CF3	RCiLA0085AFZZ	AM IF,455 kHz,H	A E
CF3	RCiLA0086AFZZ	AM IF,468 kHz,E	A E
TRANSFORMERS			
T1	92LiFT666A	FM IF	A D
T2	92LiFT666B	FM Detector	A D
T3	92LiFT666C	AM IF	A D
⚠T601	92LPT-1238A	Power,H	A V
⚠T601	92LPT-1240A	Power,E	A V
COILS			
L1	RCiLR0364AFZZ	FM RF	A A
L2	RCiLB0672AFZZ	FM Oscillator	A C
L3	92LCōiLA677A	Bar Antenna	A M
L4	RCiLA0562AFZZ	SW Antenna	A D
L5	92LCōiLō677A	LW Oscillator	A D
L6	92LCōiLō677B	MW Oscillator	A D
L7	92LCōiLō677C	SW Oscillator	A D
L8	VP-CH4R7K0000	4.7 μH	A B
L9	RCiLB0463AFZZ	0.1 μH	A A
L201,202	RCiLC0092AFZZ	6.8 mH	A D
L251	VP-CK331K0000	330 μH	A B
L471	RCiLF0014AGZZ	47 μH	A C
CONTROLS			
TC3	RTō-H1072AFZZ	Trimmer	A C
TC6,7	RTō-H1067AFZZ	Trimmer	A D
TC8	RTō-H1072AFZZ	Trimmer	A C
VC1~4	RVC-R0083AFZZ	Variable Capacitance With Trimmer	A N
VR1	RVR-M0216AFZZ	10 kohm (B),Semi-VR	A B
VR101~103	RVR-Q0222AFZZ	100 kohm(B)×2,Graphic Equalizer	A E
VR104	RVR-Q0221AFZZ	20 kohms(B)×2,Volume	A E
VR501	RVR-M0391AFZZ	10 kohm (B),Semi-VR	A B

REF.NO.	PART NO.	DESCRIPTION	CODE
CAPACITORS			

There are two types of capacitors available and they can be identified from each other by reading their Part Numbers.
- Ceramic type capacitor;
  A symbol "C" or "K" is given at the 3rd digit of its Part Number like "VCC (or K)·····J."
- Semiconductor type capacitor:
  A symbol "T" is given at the 3rd digit of its Part Number like "VCT·····J."

The capacitance error of each capacitor is indicated by the symbol given at the 13th digit of the Part Number as follows:"J" (±5%), "K" (±10%), "M" (±20%), "N" (±30%), "C" (±0.25 pF), "D" (±0.5 pF), "Z" (+80−20%).
(Tubular type ceramic capacitor is identified by the symbol TV(TQ/CY) of the part NO. VC00TV(TQ/CY)0000000; this TV(TQ/CY) does not mean the lead wire.)
(Tubular type ceramic capacitor is identified by the symbol MF(MN) of the part NO. VC00MF(MN)0000000; this MF(MN) does not mean the lead wire.)
Unless otherwise specified, electrolytic capacitors are ±20% type.

C1	VCCSMF1HL100J	10 pF,50V	A A
C2	VCKYMF1HB102K	0.001 μF,50V	A A
C3	VCCSMF1HL4R7C	4.7 pF,50V	A A
C4	VCCCMF1HH240J	24 pF (CH),50V	A A
C5	VCCCMF1HH150J	15 pF (CH),50V	A A
C6	VCCRMF1HH240J	24 pF (RH),50V	A A
C7	VCCCMF1HH2R7C	2.7 pF (CH),50V	A A
C8	VCTYMF1CY223N	0.022 μF,16V	A A
C9	VCTYPU1EX223K	0.022 μF,25V	A A
C10	VCTYPA1EX103K	0.01 μF,25V	A A
C11	VCTYMF1HV472K	0.0047 μF,50V	A A
C12	RC-GZA474AF1H	0.47 μF,50V,Electrolytic	A A
C14	VCTYMF1CY223N	0.022 μF,16V	A A
C15	VCKYMF1HB102K	0.001 μF,50V	A A
C16	VCTYMF1NY333N	0.033 μF,12V	A A
C17	RC-GZA226AF1A	22 μF,10V,Electrolytic	A B
C18	VCTYMF1CY223N	0.022 μF,16V	A A
C19	VCCSMF1HL470J	47 pF,50V	A A
C20	VCTYMF1HV472K	0.0047 μF,50V	A A
C21	VCTYPA1EX473M	0.047 μF,25V	A A
C22	VCTYPA1EX223M	0.022 μF,25V	A A
C23	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C24	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C25	RC-GZA335AF1H	3.3 μF,50V,Electrolytic	A B
C26	VCQSMA1HL102J	1000 pF,50V,Styrol	A B
C27	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C28	RC-GZA227AF1C	220 μF,16V,Electrolytic	A B
C29,30	VCTYMF1CY223N	0.022 μF,16V	A A
C31,32	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C33,34	VCTYMF1CY223N	0.022 μF,16V	A A
C39	VCCSPV1HL221K	220 pF,50V	A A
C40	VCCSMF1HL680J	68 pF,50V	A A
C42	VCCSMF1HL8R2D	8.2 pF,50V	A A
C43	VCKYMF1HB271K	270 pF,50V	A A
C45	92LCKD50BM200P	200 pF,50V	A A
C46	VCKYMF1HB361K	360pF,50V	A A
C47	VCCCMF1HH240J	24 pF (CH),50V	A A
C48	VCTYMF1HV392K	0.0039 μF,50V	A A
C49	VCCUMF1HJ150J	15 pF (UJ),50V	A A
C50,51	VCCSPU1HL221K	220 pF,50V	A A
C101,102	VCKYMF1HB391K	390 pF,50V	A A
C103,104	VCKYMF1HB471K	470 pF,50V	A A
C105	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C107,108	RC-GZA476AF1A	47 μF,10V	A A
C109,110	VCTYPA1EX333M	0.033 μF,25V	A A
C111,112	VCTYMF1EX103K	0.01 μF,25V	A A
C113,114	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C115	RC-GZA107AF1A	100 μF,10V,Electrolytic	A B
C116	RC-GZA226AF1C	22 μF,16V,Electrolytic	A B
C117,118	VCKYPA1HB331K	330 pF,50V	A A
C151	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C152	VCKYMF1HB221K	220 pF,50V	A A
C153	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C154	RC-GZA107AF1A	100 μF,10V,Electrolytic	A B
C201,202	VCTYMF1HV472K	0.0047 μF,50V	A A
C203	RC-GZA107AF1A	100 μF,10V,Electrolytic	A B
C205,206	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C207,208	VCCSMF1HL560J	56 pF,50V	A A
C209,210	RC-GZA106AF1C	10 μF,16V,Electrolytic	A B
C211,212	VCTYMF1EX123K	0.012 μF,25V	A A
C213,214	VCTYPA1EX473M	0.047 μF,25V	A A
C215,216	RC-GZA476AF1A	47 μF,10V,Electrolytic	A A
C217,218	VCKYMF1HB221K	220 pF,50V	A A
C251,252	VCKYMF1HB151K	150 pF,50V	A A
C253	VCKYMF1HB681K	680 pF,50V	A A
C254	VCKYMF1HB181K	180 pF,50V	A A
C255	VCQYKA1HM103K	0.01 μF,50V,Mylar	A A
C256	VCQPKA2AA472J	0.0047 μF,100V,Polypropylene	A B
C257	VCQYKA1HM563K	0.056 μF,50V,Mylar	A B
C258	RC-GZA107AF1C	100 μF,16V,Electrolytic	A B
C301,302	RC-GZA475AF1V	4.7 μF,35V,Electrolytic	A B
C303,304	VCKYMF1HB221K	220 pF,50V	A A
C305,306	RC-GZA226AF1C	22 μF,16V,Electrolytic	A B
C307	RC-GZA107AF1A	100 μF,10V,Electrolytic	A B
C309,310	VCKYMF1HB561K	560 pF,50V	A A
C351,352	VCTYMF1EX822K	0.0082 μF,25V	A A
C353,354	VCTYMF1EX153M	0.015 μF,25V	A A
C355,356	VCKYMF1HB102K	0.0012 μF,50V	A A
C357,358	VCTYMF1HV182K	0.0018 μF,50V	A A
C359,360	VCKYMF1HB561K	560 pF,50V	A A
C361,362	VCTYPV1EX104M	0.1 μF,25V	A A
C363,364	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C365,366	VCKYMF1HB331K	330 pF,50V	A A
C367	RC-GZA476AF1A	47 μF,10V,Electrolytic	A A
C371,372	VCTYPA1EX104K	0.1 μF,25V	A B
C380	VCKYPV1HB222K	0.0022 μF,50V	A A
C403,404	VCKYMF1HB102K	0.001 μF,50V	A A
C405,406	RC-GZA476AF1A	47 μF,10V,Electrolytic	A A
C407,408	RC-GZA107AF1A	100 μF,10V,Electrolytic	A B
C409,410	RC-QZA184AFYK	0.18 μF,50V,Mylar	A C
C411,412	RC-GZV108AF1A	1000 μF,10V,Electrolytic	A D
C413	RC-GZA227AF1C	220 μF,16V,Electrolytic	A B
C451	RC-EZ1252AFZZ	3300 μF,16V,Electrolytic	A H
C452~454	VCTYMF1CY223N	0.022 μF,16V	A A
C455	RC-GZA107AF1A	100 μF,10V,Electrolytic	A B
C456	VCTYPV1EX222M	0.0022 μF,25V	A A
C471	RC-GZA107AF1C	100 μF,16V,Electrolytic	A B
C472	RC-GZA336AF1C	33 μF,16V,Electrolytic	A B
C501	VCTYPU1EX222K	0.0022 μF,25V	A A
⚠C601~604	VCKZPA1HF103Z	0.01 μF,50V	A A
C701	VCTYMF1HV182K	0.0018 μF,50V	A A
C702,703	RC-GZA474AF1H	0.47 μF,50V,Electrolytic	A A
C704	RC-GZA107AF1A	100 μF,10V,Electrolytic	A B
C705,706	RC-GZA474AF1H	0.47 μF,50V,Electrolytic	A A
C707	RC-GZA475AF1H	4.7 μF,50V,Electrolytic	A B
C708	VCTYMF1CY223M	0.022 μF,16V	A B
C757,758	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C771	VCTYPA1EX223M	0.022 μF,25V	A A
C772	RC-GZA107AF1A	100 μF,10V,Electrolytic	A B
C773	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C774	VCCSPA1HL221K	220 pF,50V	A A
C776	VCTYPA1EX104M	0.1 μF,25V	A B
C777	VCTYPA1EX683M	0.068 μF,25V	A A
C780	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C781	RC-GZA226AF1A	22 μF,10V,Electrolytic	A B
C782	RC-GZA105AF1H	1 μF,50V,Electrolytic	A B
C783	VCTYPA1EX102M	0.001 μF,25V	A A
C784	RC-GZA334AF1H	0.33 μF,50V,Electrolytic	A A
C785	RC-GZA107AF1A	100 μF,10V,Electrolytic	A B
C786	RC-GZA337AF1C	330 μF,16V,Electrolytic	A B

REF.NO.	PART NO.	DESCRIPTION	CODE
C788	VCTYPA1EX223M	0.022 μF,25V	A A
C789,790	RC-GZA107AF1A	100 μF,10V,Electrolytic	A B
C791,792	RC-GZA184AFYK	0.18 μF,50V,Mylar	A C
C793,794	RC-GZA108AF1A	1000 μF,10V,Electrolytic	A D

RESISTORS

(Unless otherwise specified, resistors are ±5%,carbon type.) (Tubular type carbon film resistor ±5% is identified the symbol MF(MN) of the part NO. VRD−MF(MN)0000000; this MF(MN) does not mean lead wire.)

R1	VRD-ST2CD100J	10 ohm,1/6W	A A
R2	VRD-MF2EE470J	47 ohms,1/4W	A A
R3,4	VRD-MF2EE104J	100 kohm,1/4W	A A
R5	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R6	VRD-ST2CD101J	100 ohm,1/6W	A A
R7	VRD-MF2EE101J	100 ohm,1/4W	A A
R8	VRD-ST2CD472J	4.7 kohms,1/6W	A A
R10	VRD-MF2EE102J	1 kohm,1/4W	A A
R11	VRD-MF2EE682J	6.8 kohms,1/4W	A A
R12	VRD-ST2CD561J	560 ohms,1/6W	A A
R13	VRD-MF2EE224J	220 kohms,1/4W	A A
R14	VRD-ST2EE270J	27 ohms,1/4W	A A
R15,16	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R17,18	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R21	VRD-ST2CD152J	1.5 kohms,1/6W	A A
R23,24	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R30,31	VRD-ST2CD470J	47 ohms,1/6W	A A
R32	VRD-ST2CD680J	68 ohms,1/6W	A A
R33	VRD-ST2CD390J	39 ohms,1/6W	A A
R36	VRD-ST2CD221J	220 ohms,1/6W	A A
R101,102	VRD-MF2EE470J	47 ohms,1/4W	A A
R103,104	VRD-MF2EE104J	100 kohm,1/4W	A A
R105	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R106	VRD-ST2CD472J	4.7 kohms,1/6W	A A
R107,108	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R109～111	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R112	VRD-ST2CD561J	560 ohms,1/6W	A A
R113	VRD-MF2EE103J	10 kohm,1/4W	A A
R114	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R115,116	VRD-MF2EE183J	18 kohms,1/4W	A A
R117,118	VRD-MF2EE223J	22 kohms,1/4W	A A
R119	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R120	VRD-ST2CD562J	5.6 kohms,1/6W	A A
R121	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R124～127	VRD-MF2EE103J	10 kohm,1/4W	A A
R128,129	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R151	VRD-MF2EE561J	560 ohms,1/4W	A A
R152	VRD-MF2EE334J	330 kohms,1/4W	A A
R153	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R154	VRD-MF2EE561J	560 ohms,1/4W	A A
R155	VRD-MF2EE390J	39 ohms,1/4W	A A
R156,157	VRD-MF2EE103J	10 kohm,1/4W	A A
R158	VRD-ST2CD103J	10 kohm,1/6W	A A
R201,202	VRD-MF2EE153J	15 kohms,1/4W	A A
R203	VRD-ST2CD561J	560 ohms,1/6W	A A
R205,206	VRD-MF2EE473J	47 kohms,1/4W	A A
R207,208	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R209,210	VRD-MF2EE561J	560 ohms,1/4W	A A
R211,212	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R213,214	VRD-ST2CD562J	5.6 kohms,1/6W	A A
R215,216	VRD-MF2EE562J	5.6 kohms,1/4W	A A
R217	VRD-MF2EE564J	560 kohms,1/4W	A A
R219,220	VRD-MF2EE153J	15 kohms,1/4W	A A
R250,251	VRD-ST2EE560J	56 ohms,1/4W	A A
R252	VRD-MF2EE223J	22 kohms,1/4W	A A
R253	VRD-MF2EE393J	39 kohms,1/4W	A A
R254	VRD-ST2CD100J	10 ohm,1/6W	A A
R255	VRD-MF2EE101J	100 ohm,1/4W	A A
R301,302	VRD-MF2EE473J	47 kohms,1/4W	A A
R303～306	VRD-MF2EE102J	1 kohm,1/4W	A A
R307,308	VRD-MF2EE103J	10 kohm,1/4W	A A
R309,310	VRD-MF2EE224J	220 kohms,1/4W	A A
R311,312	VRD-MF2EE151J	150 ohms,1/4W	A A
R313,314	VRD-MF2EE272J	2.7 kohms,1/4W	A A
R315,316	VRD-MF2EE222J	2.2 kohms,1/4W	A A
R317	VRD-ST2CD561J	560 ohms,1/6W	A A
R351～354	VRD-MF2EE333J	33 kohms,1/4W	A A
R355,356	VRD-MF2EE272J	2.7 kohms,1/4W	A A
R357～360	VRD-MF2EE183J	18 kohms,1/4W	A A
R361,362	VRD-MF2EE152J	1.5 kohms,1/4W	A A
R363～366	VRD-MF2EE822J	8.2 kohms,1/4W	A A
R367,368	VRD-MF2EE271J	270 ohms,1/4W	A A
R369,370	VRD-MF2EE122J	1.2 kohms,1/4W	A A
R371,372	VRD-MF2EE684J	680 kohms,1/4W	A A
R373,374	VRD-MF2EE392J	3.9 kohms,1/4W	A A
R375,376	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R377,378	VRD-MF2EE182J	1.8 kohms,1/4W	A A
R401,402	VRD-MF2EE102J	1 kohm,1/4W	A A
R403,404	VRD-MF2EE121J	120 ohms,1/4W	A A
R451	VRD-MF2EE561J	560 ohms,1/4W	A A
⚠R452	VRG-ST2EF220J	22 ohms,1/4W,Fusible	A B
R453,454	VRD-MF2EE181J	180 ohms,1/4W	A A
R455	VRD-MF2EE102J	1 kohm,1/4W	A A
R472,473	VRD-MF2EE103J	10 kohm,1/4W	A A
⚠R475	VRG-ST2EG2R2J	2.2 ohms,1/4W,Fusible	A B
R501,502	VRD-MF2EE103J	10 kohm,1/4W	A A
R503	VRD-MF2EE122J	1.2 kohms,1/4W	A A
R504	VRD-MF2EE472J	4.7 kohms,1/4W	A A
R505	VRD-ST2CD472J	4.7 kohms,1/6W	A A
R701,702	VRD-MF2EE563J	56 kohms,1/4W	A A
R707	VRD-MF2EE332J	3.3 kohms,1/4W	A A
R708,709	VRD-MF2EE224J	220 kohms,1/4W	A A
R710	VRD-ST2EE221J	220 ohms,1/4W	A A
R712	VRD-MF2EE563J	56 kohms,1/4W	A A
R713	VRD-MF2EE473J	47 kohms,1/4W	A A
R714	VRD-ST2EE103J	10 kohm,1/4W	A A
R751,752	VRD-ST2CD823J	82 kohms,1/6W	A A
R768,769	VRD-ST2CD122J	1.2 kohms,1/6W	A A
R770	VRD-ST2CD151J	150 ohms,1/6W	A A
R772	VRD-ST2EE151J	150 ohms,1/4W	A A
R773	VRD-ST2CD684J	680 kohms,1/6W	A A
R774	VRD-ST2CD392J	3.9 kohms,1/6W	A A
R775	VRD-ST2CD820J	82 ohms,1/6W	A A
R776,777	VRD-ST2CD153J	15 kohms,1/6W	A A
R778	VRD-ST2CD472J	4.7 kohms,1/6W	A A
R781～783	VRD-ST2CD103J	10 kohm,1/6W	A A
R784	VRD-ST2CD333J	33 kohms,1/6W	A A
R785,786	VRD-ST2CD820J	82 ohms,1/6W	A A
R787,788	VRD-ST2CD101J	100 ohm,1/6W	A A

OTHER CIRCUITRY PARTS

CNP101	QCNCM584CAFZZ	Plug,3Pin	A A
CNP251	QCNCM586EAFZZ	Plug,5Pin	A B
CNP501	QCNCM593MAFZZ	Plug,12Pin	A C
CNP601	QCNCM583BAFZZ	Plug,2Pin	A A
CNP701	QCNCM589HAFZZ	Plug,8Pin	A B
CNP753	QCNCM656DAFZZ	Plug,4Pin	A C
CNS101	QCNWN1410AFZZ	Connector Ass'y,3Pin	A D
CNS251	QCNWN1411AFZZ	Connector Ass'y,5Pin	A F
CNS501	QCNWN1534AFZZ	Connector Ass'y,12Pin	A F
CNS601	92LCŌNE-1228B	Connector Ass'y,2Pin	A D
CNS701	92LCŌNE-1228A	Connector Ass'y,8Pin	A H
⚠F601	QFS-C202GAFNi	Fuse,T2A	A D
J151	QJAKE0157AFZZ	Jack,Mix. Mic.	A B
J301	QJAKE0145AFZZ	Jack,CD/Line In,Left	A B
J302	QJAKE0146AFZZ	Jack,CD/Line In,Right	A B
J771,772	QJAKE0157AFZZ	Jack,Surround Speaker	A B
J773	QJAKM0104AFZZ	Jack,Headphones	A E

REF.NO.	PART NO.	DESCRIPTION	CODE
M501	92LMŌT666AASSY	Motor with Pulley	A W
⚠SO601	QSŌCA0187AFZZ	AC Socket,H	A K
⚠SO601	QSŌCA0293AFZZ	AC Socket,E	A G
SOL501	RPLU-0175AFZZ	APSS Solenoid	A G
SP1,2	92LSP-1238A	Woofer	A V
SP3,4	RALMB0101AFZZ	Tweeter	A B
SP5	VSP0080WBD34A	Extra Bass	A R
SW1	QSW-B0183AFZZ	Switch,Slide Type,Band Selector	A M
SW101	QSW-S0720AFZZ	Switch,Slide Type	A E
SW201	QSW-S0721AFZZ	Switch,Slide Type,Function	A E
SW251	92LSWiCH414C	Switch,Slide Type,Beat Cancel/FM Mode	A D
SW301	QSW-S0719AFZZ	Switch,Slide Type,Dubbing Speed	A D
SW501	QSW-F0215AFZZ	Switch,Leaf Type	A E
SW502	QSW-F0207AFZZ	Switch,Leaf Type	A D
SW503	QSW-F0315AFZZ	Switch,Leaf Type	A E
SW504	QSW-F0216AFZZ	Switch,Leaf Type	A B
SW751	QSW-P0878AFZZ	Switch,Push Type, Surround	A F
SW752	QSW-P0878AFZZ	Switch,Push Type,Extra Bass	A F

MECHANICAL PARTS

1	92LMBUTŌN666F	Knob,Pause	A B
2	92LMBUTŌN666D	Knob,Fast Forward	A B
3	92LMBUTŌN666B	Knob,Play	A B
4	92LMBUTŌN666E	Knob,Stop/Eject	A B
5	92LMBUTŌN666C	Knob,Rewind	A B
6	92LMBUTŌN666A	Knob,Record	A B
7	LANGF1004AFZZ	Bracket,Flywheel	A C
8	LANGF1107AFZZ	Bracket,Motor	A D
9	MSPRP0433AFFJ	Plate Spring,Record	A B
12	LBSHZ0086AFZZ	Cushion,Motor	A A
13	LCHSM0574AFZZ	Main Chassis	—
14	LCHSS0218AFZZ	Sub Chassis	A F
15	LDAiH0067AFZZ	Head Base	A B
16	92LNBAND087	Nylon Band,60mm	A A
17	LRTNP0058AFZZ	Stopper	A A
18	LRTNP0059AF00	Retaining Ring	A A
19	LRTNP0073AFZZ	Stoper	A A
24	MCAMP0078AFZZ	Cam,Auto Stop	A A
25	MLEVF1967AFFW	Lever,Stop,Tape 1	A B
26	MLEVF1824AFZZ	Lever,Stop,Tape 2	A A
27	MLEVF1825AFZZ	Lever,Stop Interlocking	A A
28	MLEVF1826AFZZ	Lever,Play Release	A B
29	MLEVF1827AFZZ	Lever,Play	A C
30	MLEVF1828AFZZ	Lever,Trigger	A B
31	MLEVF1829AFZZ	Lever,Record	A A
32	MLEVF1830AFZZ	Lever,Rewind	A B
33	MLEVF1831AFZZ	Lever,Fast Forward	A B
34	MLEVF1832AFZZ	Lever,Stop	A B
35	MLEVF1833AFZZ	Lever,Pause	A B
36	MLEVF1834AFZZ	Lever,Select	A B
37	MLEVF1845AFZZ	Lever,Prevention	A B
38	MLEVF1872AFZZ	Lever,Main Lock	A C
41	MLEVF1876AFZZ	Lever,Active Prevention	A A
42	MLEVP0502AFZZ	Lever,Pause Lock	A B
43	MLEVP0654AFZZ	Lever,Fast Forward/ Rewind	A C
44	MLEVP0655AFZZ	Guide,Sensor	A A
45	MLEVP0656AFZZ	Tip,Sensor	A A
46	MLEVP0657AFZZ	Lever,Lock Release	A C
47	MLEVP0658AFZZ	Lever,Brake	A C
48	MLEVP0660AFZZ	Lever,Eject	A B
50	MLEVP0684AFZZ	Lever,Mechanism Mode Selector	A C
51	MLEVP0685AFZZ	Lever,Erase Prevention	A A
52	92LMCSPR666A	Spring,Azimuth Adjust.	A A
53	92LMCSPR666B	Spring,Luch	A A
54	92LMCSPR666C	Spring,Back Tension,Tape 1	A A
55	92LMCSPR666D	Spring,Back Tension,Tape 2	A A
56	92LMCSPR666E	Spring,Detent	A A
57	MSPRD0892AFFJ	Spring,Pinch Roller	A A
58	92LMTSPR666B	Spring,Over Stroke	A A
59	92LMTSPR666C	Spring,Brake Leve	A A
60	92LMTSPR666D	Spring,Play Lever Return	A A
61	92LMTSPR666E	Spring,Trigger Lever	A A
62	92LMTSPR666F	Spring,Play Gear Lever, Tape 1	A A
63	92LMTSPR666G	Spring,Play Gear Lever, Tape 2	A A
64	92LMTSPR666H	Spring,Record Lever	A A
65	92LMTSPR666i	Spring,Fast Forward/ Rewind Lever	A A
66	92LMTSPR666J	Spring,Stop Lever	A A
67	92LMTSPR666K	Spring,Pause Lever	A A
68	MSPRD0713AFFJ	Spring,Select Lever	A A
69	92LMTSPR666M	Spring,Lock Release Lever	A A
70	92LMTSPR666N	Spring,Prevention Lever	A A
73	MSPRP0432AFFJ	Spring,Cassette Retainer	A B
75	92LMESPR666A	Spring,Eject Lever	A A
76	92LMESPR666B	Spring,Fast Forward/ Rewind Roller	A A
77	92LMESPR666C	Spring,Sensor	A A
79	92LMBELT666A	Belt,Drive	A V
80	NBRGC0119AFZZ	Capstan Metal	A A
81	NDAiR0196AFZZ	Slip Roller	A E
82	NDAiR0207AFZZ	Take-up,Reel	A E
83	NDAiR0198AFZZ	Cap,Take-up Reel	A A
84	NDAiR0199AFZZ	Cap,Supply Reel	A A
85	NDAiR0200AFZZ	Supply Reel	A B
86	NFLYC0202AFZZ	Flywheel	A F
87	NGERH0192AFZZ	Gear,Fast Forward/Rewind	A A
88	NiDR-0092AFZZ	Lever,Play Gear,Tape 1	A C
89	NiDR-0093AFZZ	Lever,Play Gear,Tape 2	A C
90	NRŌLW0034AFZZ	Roller,Fast Forward/ Rewind	A E
91	NRŌLY0077AFZZ	Pinch Roller,Tape 1	A D
92	NRŌLY0078AFZZ	Pinch Roller,Tape 2	A D
93	PCŌVS3102AFZZ	Cover,Head Shield	A B
94	92LMERHD677A	Head,Erase	A L
95	92LMPHD666A	Head,Playback	A P
96	92LMRPHD666A	Head,Record/Playback	A P
97	LANGF1021AFZZ	Bracket,Switch	A C
98	MSPRD0763AFFJ	Spring,Brake	A B
99	MSPRD0764AFFJ	Spring,Brake	A A
100	PSPAD0050AFFW	Spacer,Head	A B
102	NDAiR0208AFZZ	Cap,Tape 2 Take-up	A A
103	92LMCSPR666F	Spring,Take-up	A A
106	MLEVP0661AFZZ	Lever,APSS	A C
107	MLEVF1873AFZZ	Lever,APSS Lock	A C
111	92LMTSPR666Q	Spring,APSS Lever	A A
112	92LMESPR740R	Spring,APSS Lock	A A
501	LX-BZ0451AFFD	Screw,φ2×6mm	A A
502	LX-BZ0559AFFD	Screw,φ2.6×9mm	A B
503	LX-BZ0566AFFD	Screw,φ2×4mm	A A
504	92L2R1W4R13L	Washer,φ2.1×φ4×0.13mm	A A
505	92L1R7S2PZ	Screw,φ1.7×2mm	A A
506	XBPSD20P05JS0	Screw,φ2×5mm	A A
507	92L2S3PZ	Screw,φ2×3mm	A A
508	XBPSD20W10XS0	Screw,φ2×10mm	A A
509	92L2R6S4PZ	Screw,φ2.6×4mm	A A
510	XHPSD20W12XS0	Screw,φ2×12mm	A A
512	92L2R6TTS14PZ	Screw,φ2.6×14mm	A A
513	92L2BTS10BZ	Screw,φ2×10mm	A A

REF.NO.	PART NO.	DESCRIPTION	CODE
514	92LE1R5	Stop Ring,E-Type,φ1.5×0.4mm	A A
515	92L2R6W4R13P	Washer,φ2.6×φ4×0.13mm	A A
516	92L2R9W5R5N	Washer,φ2.9×φ5×0.5mm	A A
517	92L3R1W5R25P	Washer,φ3.1×φ5×0.25mm	A A
518	92LS2R6S666C	Screw,φ2.6×10mm	A A
520	92L2R6BTS6PZ	Screw,φ2.6×6mm	A A
521	92L1R5WC3R8R5P	Washer,φ1.5×φ3.8×0.5mm	A A
522	LX-WZ1108AFZZ	Washer,φ2.1×4.3×4.3×0.5mm	A A
524	LSTWC2403AFZZ	Stop Ring,φ2.4mm	A A
526	92L2R1W5R2L	Washer,φ2.1×φ5×0.2mm	A A
527	92L3R1W6R13P	Washer,φ3.1×φ6×0.13mm	A A
528	XHPSD20W17XS0	Screw,φ2×17mm	A A
529	92L2S8PZ	Screw,φ2×8mm	A A

CABINET PARTS

201	92LCAB1239AASY	Front Cabinet Ass'y	B A
201-1	————	Front Cabinet	—
201-2	92LPANEL1228A	Decoration,Speaker	A A
201-3	92LPANEL1228B	Decoration,Tweeter	A B
201-4	92LSPCōV1238AR	Punching Metal,Right	A K
201-5	92LSPCōV1238BL	Punching Metal,Left	A K
201-6	92LWiND1239A	Dial Window	A G
201-7	92LBADGE1228A	Badge,SHARP	A A
▲201-8	92LSPCōV1228C	Punching Metal,Extra Bass	A K
202	LHLDW9003CEZZ	Wire Holder	A A
203	QFSHD1054AFZZ	Fuse Holder	A A
204	LHLDW1075AFZZ	Wire Holder	A A
205	92LPiN-1238A	Lug Terminal	A A
206	92LATML1228A	Antenna Terminal	A B
207	92LBSPR666A	Battery Spring (+,-)	A C
208	92LBSPR666B	Battery Spring (-)	A C
209	92LBTML421A	Battery Terminal (+)	A A
210	92LCAB1239B-BK	Rear Cabinet,H	A X
210	92LCAB1240B-BK	Rear Cabinet,E	A X
211	92LCōV381A	Cover,AC Socket,H Only	A B
212	92LFELT1228A	Felt	A A
214	92LPANEL677A	Label,Beat Cancel/FM Mode	A A
215	92LR-ANT719A	Rod Antenna	A N
216	92LADAPT666A	Tape Adaptor	A A
217	92LARM1228A-R	Arm,Fulcrum,Right	A C
218	92LARM1228B-L	Arm,Fulcrum,Left	A C
219	92LCSPR666A	Spring,Cassette Holder Up	A A
220	92LCCōV1239AS1	Cassette Holder Ass'y	A M
220-1	92LCT-CōV1229A	Cover,Cassette	A K
▲220-2	92LCT-CōV1238A	Window,Cassette Cover	A F
221	92LCT-HōLD976A	Cassette Holder	A F
223	92LLEG1228A	Insulator (Leg)	A K
224	92LSUPT1228A	Pivot	A B
225	92LCSPR666B	Spring,Mechanism Mode	A B
227	92LFELT666B	Felt,Switch	A A
228	92LKNōB1228A	Knob,Extra Bass/Surround	A B
229	92LKNōB666A	Knob,Volume/Graphic Equalizer	A A
230	92LKNōB666C	Knob,Mechanism Mode	A B
231	92LKNōB976B	Knob,Function/Dubbing	A A
232	92LSHAFT1228A	Shaft,Handle	A A
233	92LKNōB666D	Knob,Tuning	A B
235	92LPiNT405A	Dial Pointer	A B
236	92LWHEL976A	Drum	A C
240	92LLiD666ABK	Battery Lid	A E
242	92LSPEC1239A	Label,Specifications,H	A C
242	92LSPEC1240A	Label,Specifications,E	A C
243	PPiPP0102AFSA	Handle Grip	A G
244	92LHNDLFR1228L	Handle Fram,Left	A D
245	92LHNDLFR1228R	Handle Fram,Right	A D
246	92LKNōB677A	Knob,Band	A B
247	92LRōLL009	Dial Pulley	A B
248	92LS-CHS1228A	Frame	A K
249	92LCSPR035	Dial Cord Ass'y	A B
250	92LRDAT666A	Heat Sink,Main PWB	A D
252	92LSPAC1228A	Spacer	A A
254	92LFELT1228B	Felt	A A
255	92LBōSS1228A	Boss,Screw	A B
256	92LCAB1238SPB1	Air Duct Ass'y	A U
257	92LCHLD1229A	Sheild,Volume	A C
258	92LRDAT1238A	Heat Sink,Surround Amp. PWB	A G
259	92LCAUT677A	Caution Label,Cassette Holder,H Only	A A
601	92LS2S158A	Screw,φ2×15mm,H Only	A A
602	92L2N1R6T	Nut,φ2×1.6mm,H Only	A A
603	92L3PTS10BZ	Screw,φ3×10mm	A A
604	92L4PTS10BZ	Screw,φ4×10mm	A A
606	92L3R2W121S	Washer,φ3.2×φ12×1mm	A A
607	92L3R2W15R8S	Washer,φ3.2×φ15×0.8mm	A A
608	92LS3S524A	Screw,φ3×54mm	A A
609	92L3PTS20BZ	Screw,φ3×20mm	A A
612	92LS2R6S258B	Screw,φ2.6×8mm	A A
613	92L3TTS6BZ	Screw,φ3×6mm	A A
614	92L3TSA14RCB	Screw,φ3×14mm	A A
615	LX-CZ0011AFFD	Screw,φ3×65mm	A A

ACCESSORIES/PACKING PARTS

	92LBAG002B	Polyethylene Bag, Accessories	A A
	92LBAG1228A	Polyethylene Bag,Unit	A B
	92LCAUT003A	Caution Label,AC Power Supply Cord,E Only	A A
⚠	92LCōRD003B	AC Power Suplly Cord,E	A H
⚠	92LCōRD019C	AC Power Suplly Cord,H	A L
	92LG-CARD029C	Warranty Card,E	A C
	92LG-CARD131C	Warranty Card,H	A C
	92LiNST1239A	Operation Manual,H	A E
	92LiNST1240A	Operation Manual,E	A C
	92LLABL1204C	Label,"MADE IN MALAYSIA",E Only	A A
	92LLABL1239A	Label,Feature,H	A C
	92LLABL1240A	Label,Feature,E	A C
	92LP-AD1228A	Packing Add.	A H
	92LP-CASE1239A	Packing Case,H	A M
	92LP-CASE1240A	Packing Case,E	A M
	92LSHEET1228A	Protection Sheet Mechanism	A A

P.W.B. ASSEMBLY (Not Replacement Item)

PWB-A1~A4	92LPWB1239MAN1	Main/Volume/LED/Power Supply,H (Combined Ass'y)	—
PWB-A1~A4	92LPWB1240MAN1	Main/Volume/LED/Power Supply,E (Combined Ass'y)	—
PWB-B1,B2	92LPWB1238TLS1	Surround Amp./Switch (Combined Ass'y)	—

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